

TECHNICAL REPORT T-78-33

COMPUTER SOFTWARE FOR ANALYSIS OF INFRARED TARGETS AND CLUTTER

U.S. ARMY MISSILE RESEARCH DEVELOPMENT COMMAND

Gene E. Gowins and H. Tracy Jackson **Advanced Sensors Directorate Technology Laboratory**



JANUARY 1978



Redstone Arsenal, Alabama 35809

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ABSTRACT (Continued)

A raster type scanner Thermovision system is used to collect 10,000 data points per infrared picture. These Thermovision data points provide input to several different types of computer software routines used to investigate and evaluate passive infrared targets and clutter signatures and identify potential target discrimination and acquisition techniques.

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I. OBJECTIVE

The objective of this report is to describe data collection and computer software used to characterize armored targets and ground clutter in the 3- to 5- μ m and 8- to 14- μ m infrared (IR) spectrum. The software is designed to evaluate a conceptual seeker algorithm for effectiveness against an armored threat within the threat's operational scenario.

II. INTRODUCTION

The US Army Missile Research and Development Command (MIRADCOM) Advanced Sensors Directorate is conducting a Ground Target Signatures Program to investigate and evaluate passive IR targets and background (clutter) signatures and identify potential target discrimination and acquisition techniques. To these ends, several computer software routines have been developed which progress from a point of producing graphics which provide intuitive insight into the problem to qualitative evaluation of detection and acquisition algorithms. The computer software features are as follows:

- a) Three-dimensional plot of target-clutter energy versus aspect position with a subroutine to convert the data to a two-dimensional plot of energy versus scan direction position This is accomplished by an integration process in the vertical dimension. These data provide information for scan direction Weiner Spectrum analysis.
- b) Two-dimensional matrix plot of energy versus target clutter position This program provides a matrix of data values versus position to be used in a simple hot spot detection algorithm.
- c) Target-clutter noise discrimination model used to vary a threshold on the matrix array provided in Routine b) The program output is the number of data points exceeding the threshold and the location of those points.
- d) Histogram of target-clutter scene. This routine generates an energy probability density function which can be used to evaluate target energy versus clutter energy and the setting of a seeker threshold.
- e) Variable field-of-view (FOV) scan This program is used to subdivide a large array of data into smaller increments as would be seen by a matrix array of detectors or a line array with scan direction data storage equivalent to the vertical scan dimension.
- f) Fly-in simulation model This program selects consecutive subsets of the original data matrix to simulate the reduced FOV encountered during seeker fly-in and calculates data statistics.
- g) Graphics target-clutter frame-to-frame comparison model—
 This program is used to accumulate statistics over a large number of scenes as in Routine d). It then calculates the mean and standard

deviation of the accumulated scenes and uses Routine c) to evaluate a threshold set to the scene mean value plus integer multiples of the standard deviation.

- h) Two-dimensional gradient and spatial discriminator This program generates a two-dimensional thermal gradient by evaluating the pixel to pixel changes in both horizontal and vertical directions through the use of a 2-horizontal by 2-vertical pixel window.
- i) Two-dimensional thermal gradient and spatial discriminator— This routine is identical to Routine h) except for the window function which has been expanded to 3-horizontal by 3-vertical pixels.

These routines are used in conjunction with AGA Thermovision data to evaluate tactical scenes. The following sections provide the AGA thermovision raw data and data formating into a CDC 6600 compatible format, a mathematical and physical description of each computer program, and a users guide for each program.

III. PROBLEM DEFINITION

A. Introduction

The evaluation of seeker performance against armored threats requires a thorough understanding of the seeker algorithm and the nature of the threat and its expected environment. Once this basis is established, more sophisticated methods of target-background discrimination can be applied.

B. System Characterization

The first step which must be taken in any computer evaluation is characterization of the system to be analyzed. To do this, either the target must be characterized by some model or actual field measurements must be obtained. A model is usually a tradeoff between accurate representation of the target-background and the mathematical complexity which the analytic system can handle. Field measurements are real-world situations limited only by the similarity of the data acquisition system to possible seekers and by the number and variety of measurements that can be made. Once the data are collected, they can be analyzed on numerous levels from intuitive to analytical.

IV. DATA COLLECTION

The data collection system is a raster type scanner manufactured in Sweden by AGA AKTIEBOLAG. The system contains two major subassemblies; the camera head and an electronics control/display console. The camera head consists of a silicon lens with a 134-mm focal length and a maximum aperture opening of f/1.5. The optical system uses a variable

aperture stop to control the FOV and an image plane scanner designed to produce a raster scan at 16 frames/sec over a 10° by 10° square FOV. The scan rate is determined by the 280 vertical line 2/1 interlace raster with 140 unambiguous data points per horizontal line and 140 unambiguous vertical line resolution capability. The single detector is an InSb photovoltaic detector operating at 77°K by means of a nitrogen dewar. The detector angular subtense for both horizontal and vertical FOV is 1.3 mrad.

The detected video signal is supplied to the video amplifying circuits which amplify and filter the signal to drive a small cathode ray tube which generates a pictorial result. At the same time, the video signal is supplied to an analog-to-digital converter. The analog-to-digital converter presently digitizes approximately one frame per second and stores data serially in a PCM format on one track of a 14-track tape on an AMPEX-1300 tape recorder. Each digitized data frame consists of 140 vertical lines with 140 data points per line in a 10-bit word for each data point. This 14-track output tape, with one track of serially packed digitized Thermovision output data contains $140 \times 140 \times 10$ bits of information for each frame digitized. This information is then selected on a per frame basis and recorded on a digital parallel seventrack tape compatible with input data format requirements of an Army CDC-6600 digital computer. Further and more detailed descriptions of recording techniques and the reduction of Thermovision data will be addressed in the ensuing sections of this report.

The AGA Thermovision system is relatively small and may be mounted on a helicopter, elevated tower, or installed in a fixture at ground level to view a ground target or background scene. In support of many different air defense and ground target signature applications, the system has been equipped with eight different bandpass filters. Each of these filters represents an IR bandpass of military interest.

A. AGA Thermovision Field Measurements

In general, the AGA Thermovision system has been used in IR measurements of ground targets viewed from both ground level positions and elevated platforms. This system of data collection has proven to be reliable in many and varied applications. For example, this system has been used by the Air Force to record in-flight IR signatures of jet aircraft plumes. The Thermovision system was mounted in a pod on the wing of a chase plane.

For the current application, the Thermovisions were mounted on a helicopter to collect ground target and clutter data from various altitudes, ranges, and aspect angles near vertical. Due to the interaction between the target and ground clutter and a desire to gain more of an intuitive insight into the problem and evaluate seeker concepts, a large quantity of data has been taken for ground targets and clutter.

Data of these types, along with computer analysis, can evaluate and establish limits on seeker systems acquisition techniques which operate predominately on energy levels and spatial frequency. These types of data and computer analyses can also be used to assess the feasibility of automatic target cueing technology in detecting and recognizing tactical targets in forward looking IR (FLIR) imaging systems.

B. Data Formatting

The purpose of this section is to outline steps required to process and reduce the raw Thermovision data to a computer compatible format. The block diagram of Figure 1 will be used to describe the required process from the point of data inception to the point of inputting reduced data to the CDC-6600 for analysis.



Figure 1. AGA Thermovision data recording process.

During Step 1, each Thermovision data frame is composed of 140 lines with 140 resolution elements per line; consequently, if each data point is represented with a 10-bit word ($16 \times 140 \times 140 \times 10$ bits of information), the string of 3.136×10^6 bits/sec would require recording on magnetic tape. This data rate is well beyond the tape drive operating capability; therefore, an analog-to-digital converter was developed to digitize one frame per second, approximately 196,000 bits of information per frame. This requires the matching of lines from frame to frame to reconstruct one frame out of every 16 frames. To assure correct frame reconstruction, the last two data points at the end of each frame have a special coded value. Therefore, at the end of Step 3, a 14-track AMPEX-1300 tape is generated with digital PCM Thermovision information on only one track. A physical representation of the one track is shown in Figure 2. Each line is composed of Data Point 1 (D1) through Data Point 140 (D140); each data point is represented by 10 bits.

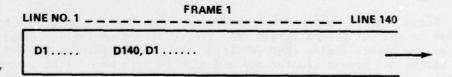


Figure 2. Data frame format.

For each line, Data Points 139 and 140 have the same special bit pattern to denote the end of a line; in addition, Data Points 139 and 140 of Line 140 are made up of a special bit pattern to identify the end of a frame. After one frame is recorded on the tape, a new frame is started; this process repeats itself until the measurements are completed or a tape is full.

Steps 4, 5, and 6 (Figure 3) are illustrated to show how the data are recorded to meet CDC-6600 input format requirements. During Step 4, a decommutator is used to select the correct coded words at the end of each line and at the end of each frame to reconstruct each data frame correctly. Each frame of data is input to a PDP-11 digital computer (Step 5). During Step 6, a PDP-11 digital computer takes the serial string of bits and generates a seven-track parallel digital packed tape which may be input to a CDC-6600 computer. It must be recalled that a 10-bit word was output from the analog to digital converter to represent each 10-bit data point. This 10-bit word is now right-adjusted in each of the 18-bit words output from the PDP-11 computer. Thus, at the end of Step 6, a magnetic digital tape composed of Thermovision data has been generated and is compatible with CDC-6600 software.

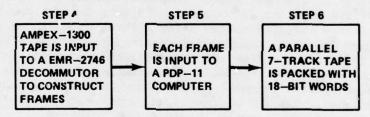


Figure 3. Data conversion to CDC-6600 format.

C. Validation of Data Format

The initial task in the Thermovision data analysis is to input to the Eglin BASES program the digital tape generated during the previously mentioned six steps of the data reduction process. The 10-bit input data are now contained in an 18-bit word and must be selected, sorted, and shifted into a 60-bit word. After processing through the BASES program's GETPIC routine, a new seven-track parallel data tape is created, which is made up of 60-bit words, with five 12-bit words in each 60-bit word. Furthermore, the 10 bits of meaningful data are packed in each of the 12 bits of information as in the example of Figure 4.

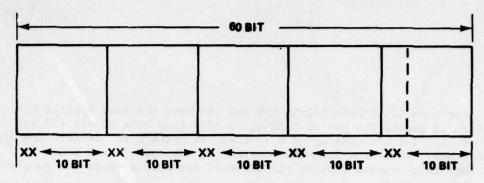


Figure 4. CDC 60-bit word data format.

After using the GETPIC routine one time to generate the new 60-bit word data tape, the BASES program may be run any number of times with the new data tape without using the GETPIC routine again. Outputs from the BASES program applied to measured data are tabulated in Table 1 for 100 of the 260 frames of data contained on the tape.

V. DATA ANALYSIS

The simplest level at which data can be analyzed is by a two-dimensional printout of data counts versus the two spatial coordinates (Figure 5). This gives a quick intuitive feel for the general distribution of energy in the data frame. Maximum, minimum, and rough average energy across the data can be obtained. Further insight can be gained by plotting energy versus position using a three-dimensional plotting program (Figure 6). This three-dimensional plot provides a wealth of qualitative information. From the three-dimensional plot, an evaluation of target energy as compared to background energy can be obtained. A rough idea of spatial frequency content and thermal gradients can also be determined. The three-dimensional plot also quickly reveals the distribution of equal energy levels (level slicing).

From this point, there are basically three different approaches to target-background discrimination: spatial filtering, feature selection-classification, and pattern recognition [1]. Spatial filtering can be achieved most easily by scanning with an array of detectors. A linear array of detectors whose output is summed while being scanned at right angles across a scene will produce a one-dimensional distribution of energy versus scan position (Figure 6). This output can be converted to a Weiner spectrum using the Fourier transform [2]. The Weiner spectrum can then be used to characterize target and background signatures.

The importance of characterizing IR backgrounds is unquestionable, but methods for doing so have been hotly debated [2-5]. Most recent efforts have centered around modeling IR backgrounds as Gaussian noise distributions. Such distributions can then be described by Weiner spectra, autocorrelations, or line scan distributions. Thus, the main

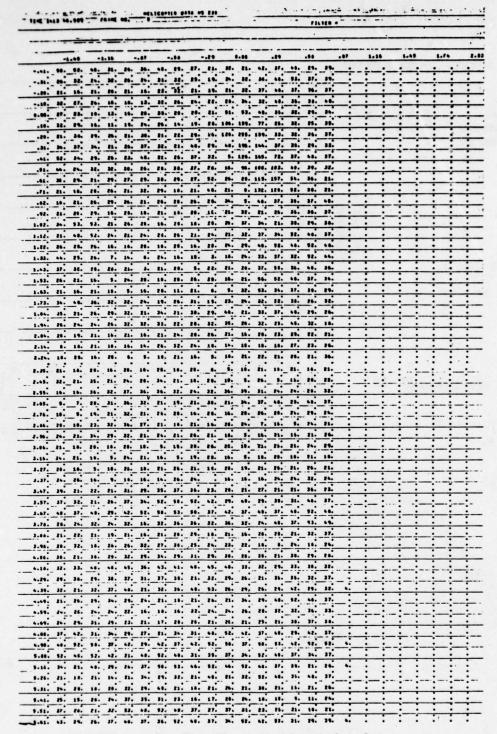


Figure 5. Two-dimensional matrix plot.

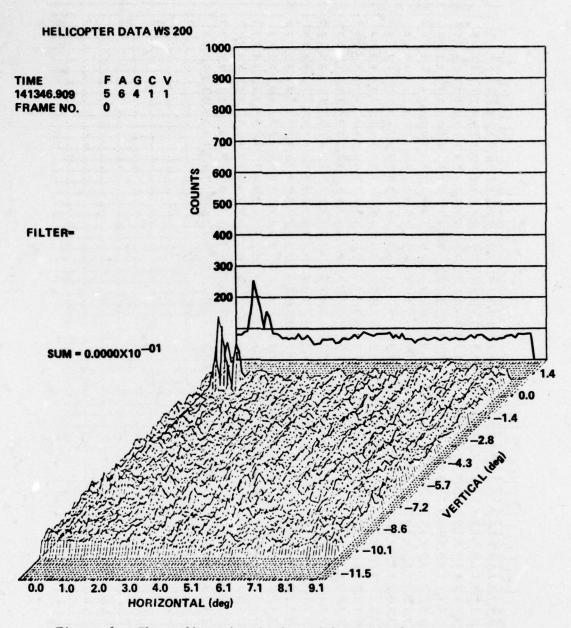


Figure 6. Three-dimensional plot with vertical scan plot.

thrust of data acquisition and analysis of the MIRADCOM IR ground target signatures program has been to confirm or refute these models.

Feature selection and classification also requires knowledge of the statistical energy signatures of targets and backgrounds. To do this, a histogram of the number of data points versus scene intensity must be accumulated (Figure 7). From the histogram (probability density function), target and background signatures can be fitted to statistical distributions, usually assumed normal or Gaussian. These statistics will then define error probabilities for various seeker-target-background combinations. A qualitative feel for the performance of an adaptive-threshold seeker algorithm can be gained by thresholding the two-dimensional matrix plot around the target mean at integer multiples of the target standard deviation (Figure 8). Further characterization of target and background signatures requires that statistics be accumulated on a large number of data frames to increase the statistical confidence in the signatures obtained.

The first step in performing pattern recognition studies is to define the shapes present in a particular scene. This is most easily accomplished by spatial differentiation, which essentially enhances edges of objects (this is also useful in evaluating the performance with edge tracker systems). There are many methods for edge enhancement but the simplest computationally are linear matrix approximations to the spatial gradient. These methods involve using either a two by two or three by three matrix as a window for calculating differences in absolute value among adjacent data points. Matrix windowing also allows simulation of various configurations of shaped detector arrays. By altering the size of the matrix, simulation of seeker fly-in can also be achieved.

VI. SOFTWARE DESCRIPTIONS

The program P2171 is a versatile package which provides many alternate methods to display the information in a particular scene. The program provides options to enable the user to read packed or unpacked data. Various operational modes can be selected due to the compartmentalized structure of the program. Energy levels can be output either uncalibrated as counts, or calibrated in W cm 2 str 1 by using previously determined calibration constants and various parameters read from the input data tape. Coordinates can be output in three modes: uncalibrated (row and column), calibrated linear (ft), or calibrated angular (deg). Provision is made in this program for editing the data to decrease the effects of noise spikes or delete obviously bad data. The program can output a summary (Figure 9) of each frame of data which includes the following data: time before and after frame, time difference, frame number, instrument settings (filter, aperture, gain, etc.) maximum and average counts, location of maximum count, and other internally related data.

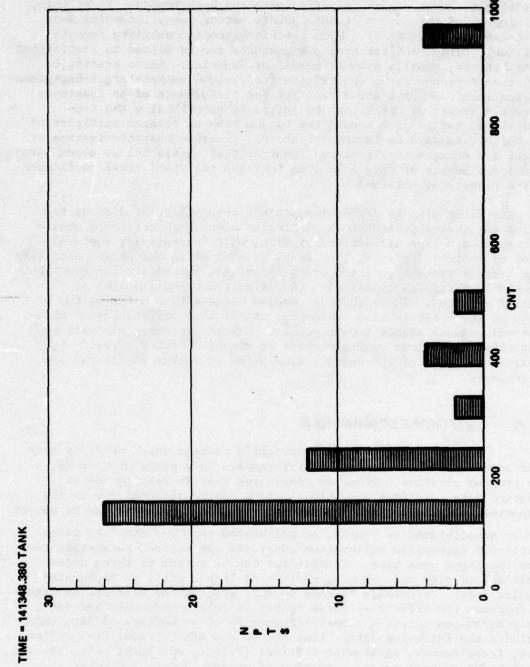
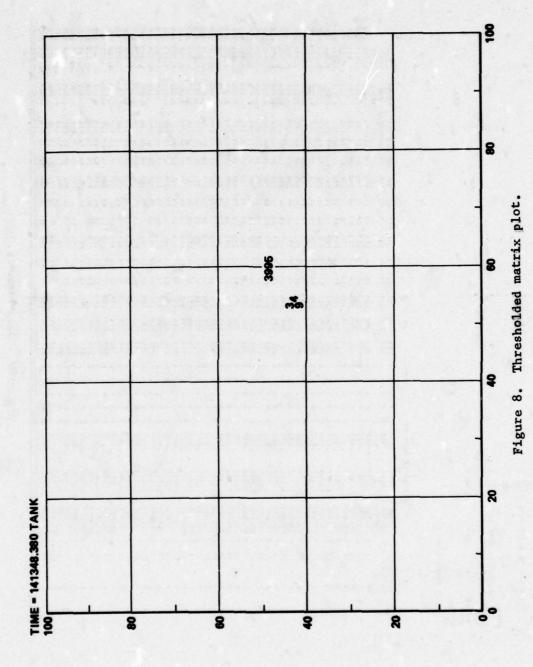


Figure 7. Histogram of probability density function.



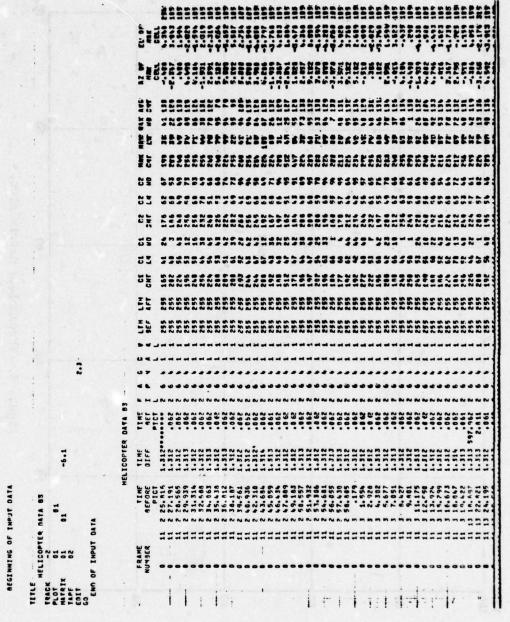


Figure 9. Data summary.

Data can also be output as a two-dimensional matrix of energy values. Energy and position units can be selected as described previously. Highlights can be added such as marking maximum count or blanking out cells with counts below a selectable threshold. The matrix plot also provides the sum of all counts in the frame. A portion of the program provides the two-dimensional matrix output for the first intuitive examination of the data. After the target and background statistical distributions have been determined, the two-dimensional matrix can be thresholded and output to give a qualitative feeling for seeker effectiveness and probable errors (Figure 10).

This two-dimensional matrix of energy values can be plotted in three dimensions, that is a plot of energy (as the vertical coordinate) versus spatial coordinates with the benefits described earlier. The sum of the columns is also plotted as a two-dimensional projection along the edge of the three-dimensional plot to provide a simulation of scan direction line detectors.

The KPLOT program provides plots of the statistics of single or accumulated data frames. It can produce bar or point histogram plots of the data probability densities, as well as the mean, variance, and standard deviation of a normal distribution which best fits those data.

Program GOWENS is a fly-in simulation model and edge-tracker model. The fly-in simulation is implemented by iteratively reducing the full frame of data to a smaller subset of data points to simulate range closure, simultaneously finding the statistics for the reduced scene. The same program can simulate an edge tracker by the same process on a line-by-line or column-by-column basis. Level slicing and thresholding can also be done in this program using a subroutine which places only those data points with counts inside a gate into a reduced matrix. Coordinates are encoded with the data values so that the gated data may be accurately reconstructed.

Program Gradient does the 2 \times 2 and 3 \times 3 spatial gradient calculations. The program utilizes a moving matrix and an absolute value calculation to approximate the temperature gradient. The 2 \times 2 method calculates from the matrix:

a	b
С	d

The gradient, s, at point, a, is then given by

$$S = |a - d| + |b - c|$$

where || is absolute value.

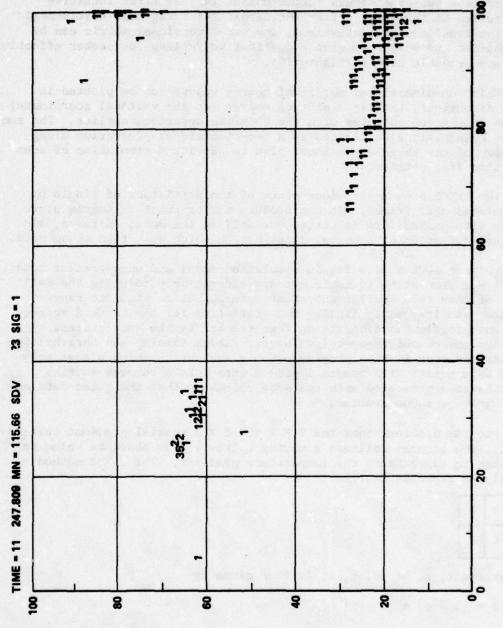


Figure 10. Threshold matrix sample plot.

The 3 × 3 method uses the matrix

a	ь	С
С	e	f
g	h	i

and calculates the gradient, s, at point e as

$$S = |S_x| + |S_v|$$

where

$$S_x = (c + 2f + i) - (a + 2d + g)$$

$$S_v = (g + 2h + i) - (a + 2b + c)$$

 ${\bf S}_{\bf x}$ and ${\bf S}_{\bf y}$ approximate the partial derivatives in the x and y directions, respectively, and can thus be used to simulate edge trackers.

VII. SOFTWARE USER INFORMATION

A. Introduction

This portion of the report is to provide a guide for prospective users of Program P2171, Program GOWENS and Program KPLOT. Setup procedures and various types of input and output will be demonstrated. It should also be noted that Program P2171 was modified from the original Eglin version to simulate IR-guided missile systems against certain armored targets.

B. Program P2171 Setup

The following files are used:

	Files	Description	Restrictions
1.	Input/Tape 5	Cards	Always
2.	Output/Tape 6	Time history listing	Always
3.	Tape 11	Primary data source PDP-15, picture data tapes or previous compressed P2171	Always
4.	Tape 10	P2385 or P2204 trackpoint range data tape	Optional

	Files	Description	Restrictions
5.	Tape 12	Compressed output tape of input Tape 11	Optional
6.	FILMPL	Three-dimensional picture plots	Optional
7.	Tape 9	Picture matrix listing	Optional

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PROGRAM 2171 CARD INPUT

ALL CARDS AFF IDENTIFIED BY HOLLFRITH CODES IN COLUMNS 1-5, COLUMNS 11-32 CONTAIN TATA ANTION FLAGS TEPENDING ON CAPO TYPE. FIFLDS LEFT BLANK AND CARDS OMITTED ASSUME A DEFAULT VALUE.

VALUE.	
1 TITLE GARD -	PC TYPES INDICATES TITLE CARD TO FOLLOW TOPFAULT PLANT TITLE?
2 PLOT CARD -	CEFINES PLOT OPTIONS (DEFAULT NO PLOT OUTPUT)
3 PRINT CAFC -	(DEFAULT NO PRINT OUTPUT)
4 TAPE CARD -	CEFINES TAPE PARAMETERS, OUTPUT TAPE OPTION CEFAULT - NUMBER SAMPLES/RECORD = 5 NUMBER MILLISECONDS/SAMPLE = 12.305 NO PACKEC OUTPUT TAPE
5 TIME C480 -	DEFINES START STOP TIME TO PROCESS (DEFAULT ENTIRE TAPE)
6 LIMIT CARD -	OFFINES LIKE TO PICK AS FIRST LINE OF THERMOVISION PICTURE (OFFAULT 11)
7 CLASS CARD -	CEFINES CLASSIFICATION OF PLOT OUTPUT
74 MSN LABEL CA	RC - ONLY ON CLASS CARD OPTION
73 AUTHORITY CA	FO - ONLY ON CLASS CARD OPTION
TC DOWNGRADE CA	RC - ONLY ON CLASS CARD OPTION
8 MATRIX CARD-	CEFINES MATRIX OPTIONS
9 TRACK CARD -	CEFINE SOURCE OF PANGE, REL BRNG AND/OR TRACK PT
10 VALTO CARD -	(DEFAULT- IGNORE VALID DATA SWITCH)
11 SONV CARD -	SPECIFIES CONVERSION FACTOR FOR A GIVEN FILTER, GAIN, AND APERATURE. CEFAULT- CONVERSION FACTOR = 1
12 DELETE CAPD-	SPECIFIES DELETE TIMES /
13 CENTES CARD-	SPECIFIES LIN AND WOOD OF ROPESIGHT OF AGA.
14 CAL ONLY -	SPECIFIFS CALBOATION FRAMES ONLY
15 MIN CARD -	SPECIFIES THE PEAK VALUE BELOW WHICH A PICTURE IS CONSIDERED TO BE NOT DE SIGNIFICANT LEVEL AND WILL NOT BE PLOTED (DEFAULT. = 4*3ACKGROUND LEVEL)
	(DEFAULT . = 4+TACKGROUNT LEVEL)
16 EDIT CARD -	CEFINES EDIT OPTIONS AND BACKGROUND LEVELS (DEFAULT-SEE DEFINITION OF THIS CARD)
17 LABEL CAPO -	CFFINES LOCATION AND HOLLERITH LABEL TO BE PUT CN
	(OEF ALT - BLANK LABEL FOR UNDEFINED LOCATIONS)
	SPECIFIES A CONSTANT LOCATION OF TAILPIPE AND TRACK

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	TI	ME CAPO	
COLUMN	NAME	CESCRIPTION	FORMAT
11-19	STAPT	HHMHSSSSS = STAPT	. A4
21-29	STOP	HHMMSSSSS = STAPT HHMMSSSSS = STOP NOTE: HH = HP	. 19
		NOTE: HH = HD	
		IF NOT BLANK, THEN YIE NO OF FRAMES ACTES STAPT TIME THAT IS TO BE QUITCUT. STOP TIME CAN 3F LEFT ELANK IF THIS OPTION IS USED.	F10.6
31-43	М	NO OF FRANCE AFTER START	F10.6
		TIME THAT IS TO BE QUITOUT.	
		STOP TIME CAN OF LEFT	<u> </u>
		team I mis of fight is obes	•
	LI	MIT CARD	
COLUMN	NAME	GESCRIPTION "LIMIT"	FORMAT
1-4	KA90	"LIMIT" ITNE NUMBER TO CONSTORE TOP OF PICTURE	A5
. 4 - 16	110	LINE NUMBER TO CONSIDER TOP OF PICTURE (DEFAULT 11)	
	CI	AES CARD	
COLUMN	NA MF	CESCRIPTION	FORMAT
11-12	ICLASS	"CLASS"	A5 12
11-12	ICLASS	C = UNCLASSIFIED (DEFAULT) 1 = CONFIDENTIAL	12
		1 = CONFIDENTIAL 2 = SECRET 3 = TOP SECRET	
13-14	19	C - FILMPL SAD COTION (DEFAULT NO FURTHER OF	PTIONS) IS
		3 = TUMPL SAD OPTION (DEFAULT NO FURTHER OF 2-5=NUMBER OF SPECIAL DOWNGRADE CARD INPUT 11-19=NUMBER OF PURE SPECIAL DOWNGRADE CARD: 0 = NO CONNGRADE STAMP (DEFAULT) 1 = XGDS-1 STAMP 2 = YGDS-2 STAMP	+ 1 S INFUT +10
15-15	10	0 = NO DOWNGRADE STAMP (DEFAULT)	INFUT TIU
		1 = XGDS-1 STAMP 2 = XGDS-2 STAMP	
		3 = YGDS-3 STAMP	
		4 = YGOS-4 STAMP FOOID TO JUN 72	
		5 - 605 (XG)5-4 at 1:4 304 721 5144	
		6 = XCL STAMP 7 = XGJS NO CATACOPY STAMP	
17-15	15	1 = *PESTRICTED DATA* STAMP	12
		2 = "FORMERLY RESTRICTED DATA" STAMP	
19-20	TW	6 = XCL STAMP 7 = XGJS NO CATAGORY STAMP 1 = NO STAMP ("FFAULT! 1 = *PESTRICTED DATA" STAMP 2 = *FORMER BLY RESIDICTED DATA" STAMP 3 = *NATIONAL SECURITY SECURITY INFORMATION 0 = NO STAMP (OFFAULT) 1 = *MASSING NOTICE SS L MI" STAMP	STAMP IS
	1.14	1 - "HARNING NOTICE SE . MI" STAMP	
21-22	IN	0 = NO STAMP (PERULT) 1 = "NO FOREIGN DISSEM" STAMP	IS
-		1 MO LOZZTAM #1522M. 2184M	
	MS	N LABEL CARD	
		LLOW CLASS CARD IF IR GT 0)	
COLUMN	NAME DE	SCRIPTION JOB MUNRER	FORMAT
1-4 11-27 21-30 31-40 41-50 51-60	IJOB IPOOJ IMSN IJAIF	MISSION NUMBER MISSION NUMBER MISSION DATE HOLERITH JOB LABEL I. E. F. Q. L. JOS RUN DAY	A10
1 -30	IMSN	MISSION NOTE	A10
1-50	MUST	FO LERITH JOB LABEL I. E. F. Q. L.	A10 A10 A10
51-60	IJAY	JOB RUN DAY	A10
		·	
			*

	AU	THORITY CARD	
	(MIST FO	LLOW MSN LAREL CARD IF IP = 1 THRU 5)	
COLUMN	NAME CE	CLASSIFING AUTHORITY FOR DOWNGRADE STAMP	FORMAT
1-59	IDCLAS	CLASSIFING AUTHORITY FOR DOWNGRACE STAMP	. 459
70-73	470243	C = IF PLANK TOCLAS IS USED	A59 A10 A1
	-	C = IF PLANK INCLAS IS USED C = UPON COTIFICATION BY THE ORIGINATOR C = NOT AUTOMATICALLY PECLASSIFIED	
	00	HNGRADE CARD	
	(MUST F	OLLOW AUTHORITY CARC IF IR>2, MSN LABEL CARD I	F 19>10)
COLUMN	NAME DE	SCRIPTION	FCRMAT
1-80	OR	HOLLERITH DOWNGPADE STAMP TO BE USED IF IR >	10 8410
	96	CLASIFICATION TO TOWNS AND STATE STATE STATE WITH	
	MO	CLASIFICATION LINE + 4 CAROS UNLESS XOL TO 9E DO THEN 6 CAROS ALLOWED IF IR >10,9 GAROS ALLO	WED
	——МА	TRIX CARD	
COLUYN	NAME	DESCRIPTION	FORMAT
11-12	INIX	=0. INDICATES NO MATRIX OUTPUT (DEFAULT)	12
13-14	IFEET	=0. MATRIX WILL BE CUTPUT IN DEGREE CELL HATT	5 12
		=1. MATRIX WILL BE OUTPUT IN REET CELL UNITS	12
15-16	RBCELL	=N. INDICATES SELECT EVERY NIM FRAME THAT IS CONSIDERED FOR OUTPUT (SEE COL 15-16) =0, MAIPIX WILL BE OUTPUT IN DEGREE CELL UNITS CONSIDER FOR MAIPIX CUIPUT IN FEET CELL UNITS CONSIDER FOR MAIPIX CUIPUT IF RELATIVE BEAPIN HAS CHANGED BY MORE THAN RECELL (DEG), NOTE: 1=1,THEN FYERY FRAME WILL BE CONSIDERED. = PROGRAM SELECTS OWN MAIRIX LENGTH PARA WETERS 1 = MAIRIX DISPOSITION TO TARES 1 = MAIRIX DISPOSITION TO TARES	G 12
	75745	IFED, THEN FYERY FRAME WILL BE CONSTDERED.	
17-18 19-20 I	IFINO 1	1 = MATRIX OTSPOSITION TO TAPES	12
31-40	DLEFT	IF NE 0. THEN IS LEFT LIMIT OF MATRIX FROM T TAIL PIPE LOCATION (DEFAULT = 2.0)	HE F10.2
41-50	DRIGHT	IF NE 0. THEN IS STOUT LIVIE OF MATERY	F10-2
		FROM TAIL PIPE LOCATION (OFFAULT = 8.7) IF NE 0 THEN IS MAXIMUM NO OF FRAMES TO USE FOO IR MATRIX. (OFFAULT 4)	
51 -60	NERMIX	USE FOO IR MATRIY. (OF AULT 4)	F10.2
		NOTE: PROGRAM HTIL START AT CELL CORRESPONDIN	G
		NOTE: PROGRAY WITE START AT CELL CORRESPONDING TO THE MATRIX TO THE CELL CORRESPONDING TO THE MATRIX TO THE CELL	
	TR	ACK CARD	FORMAT
COLUMN	NA MF	DESCRIPTION "TRAC"	A4
11-12	IT SK	FIND TAIL PIPE LOCATION	
		FOR TOACH COTHY AND TATE OFFI COFF TATE	****
		= 0, DO NOT READ TAREIR. NO NOT QUIPUT IR MAT	LECTED
		FROM TY VIDEO LOCATION, WHEN NOT AVAILAB	LE:
		= 2. READ TAPETO USE MAY AGA TO FIND TAIL PTP	E. USF
		= 0, 00 NOT 35A0 TAPEID. TO NOT OUTPUT IR MAT = 1, READ TAPEID. TAIL PIPE LOCATION TO BE SE FROM TY VIDEO LOCATION, WHEN NOT AVAILAB USE MAY 45A LOCATION, (17ACK B) FROM VCO = 2, READ TAPEID. USE MAY AGA TO FIND TAIL PIPE TV VIDEO WHEN LOCATION FROM MAX AGA CANN	OT HE FOUN
different Land			

OLUMN	NAME	CESCRIPTION	FOPMAT
1-12	IVALID	VALID DATA SWITCH SETTING (DEFAULT=IGNORF)	12
		NV CARD	
OLUAN	NAME		FORMAT
1-4	KARN	DESCRIPTION	
1-12	IF TA	APERATURE MUMBER	15
5-15	13	CONVERSION FACTOR FROM COUNTS TO WICH # 2 SR)	F10.2
11-40	CONV	FOR IF.IA. IG COMPINATION	-10.2
		NOTE: CONVESSION FACTOR EQUALS (AVERAGE INTERNAL LAB COUNT) *(SLOPE)/(AVG INFLIGHT CAL COUNT)	
	DE	LETE CARD	
OLUMN	NAME	CESCRIPTION	FORMAT
1-4	KARD	CESCRIPTION "DELE"	A4
1-19	TOELE	HAMMASSSS =STAFT OF DELETE INTERVAL HAMMASSSS =END OF DELFTE INTERVAL NOTE: UP TO 25 DELETE CARDS MAY BE INPUT	19
	CF	NTER CAPO	
OLUYN	NAME	CESCOIPTION	FORMAT
1-4	KAPN	*CENT"	A4
1-12	TLCENI	WORD NUMBER OF CENTER OF AGA (DEFAULT=60)	12
3-14	RESLIM	RESOLUTION OF ONE LINE OF AGA (DEFAULT=10/69 DE	G) F10.2
41-50	RESNO	RĒŠÕĒÚŤĪĎN ŎF ŇNE ŇČRĎ ŎF ÁĞA (ĎĒFAÚĒT=ĒŽ49 DĒĞ	F10.2
	CA	L ONLY CARD	
OLUMN	NAME	CESCRIPTION	FORMAT
1-4	KARD	"CAL" -1. INDICATES SELECT CALIBRATION FRAMES ONLY	A4
1-12	-IGAL		
	MI	N CARD	
OLUMN	KARD	CESCRIPTION MIN"	FORMAT
1-4	HNVAL	SPECIFIES MINIMUM COUNT FOR DELETING PLOT OF A	
		PICTURE. IF MAY VALUE OF A PICTURE IS BELOW THE	S

COLUAN	NAME	DESCRIPTION	FORMAT
11-12	TEDT	=0, DO NOT EDIT NOISE SPIKES IN PICTURE	IZ
71-41	IEDUA	=0, DO NOT EDIT NOISE SPIKES IN PICTURE =1, FDIT NOISE SPIKES (DEFAULT) IF GT 1.6, THEN SPECIFIES COUNT VALUE ABOVE WAS A CELL WILL BE CONSIDER D POSSIBLE NOISE SPIKE (DEFAULT = MAX((4+AV)) OF BACKGROUND PEAKS).361	CH F10.
41-50	TEDOWN	COPPESSOUNTING MOODS ON ADJACENT LINES MUST BE	SELOW 10.2
51-60	I3K	TN ORDER FOR A CELL TO RE CONSIDERED A NOISE SE (DEFAULT = 1.75° RACKGROUND) IF ST 1. THEN SPECIFIES COUNT VALUE TO BE	F10.2
61-70	PCT	IDEFAULT = 1.75* RACKGROUND) IF GT 1, THEN SPECIFIES COUNT VALUE TO BE CONSIDERED GACKGROUND LEVEL MULTIPLICATION FACTOR TO DETERMINE AND OPTIMAL PACKGROUND LEVEL	
		200 COUNTS	CH
		(DEFAULT FOR PCT = .75)	
		051, 0400	
COLUMN	NAME	CESCRIPTION	FORMAT
1-4	KARD	- «I Λ3F «	A &
11-12	LASEL	LINE NO FOR PLACEMENT OF THIS LAREL ON 30 PLOT FOLLERITH LABEL INFORMATION TO PUT AT ILAR	S IZ
		HOLLERTTH LABEL INFORMATION TO PUT AT ILAR LOCATION NOTE: UP TO 25 LABEL CAPES MAY BE INPUTATED AFTER A LABEL CAPE HAS BEEN INPUT, THEN IT	JT.
		INPUT IN IT'S PLACE, THEREFORE, IF IT IS DEISRED TO SEMOVE A PARTICULAR LINE OF INFO,	
		DEISRED TO SEMOVE & PARTICULAR LINE OF INFO.	A
		INPUT WITH COL 21-40 GLANK.	JE .
		IL GAPO	
COLUMN	NAME		FORMAT
1-4	CARD	CESCRIPTION TAIL	44
31-40 41-50	ATP	CONSTANT LOCATION FOR AZIMUTH OF TAIL PIPE CONSTANT LOCATION FOR FLEVATION OF TAIL FIPE	F10.0
51-50 61-70	FTRK	CONSTANT LOCATION FOR FLEVATION OF TAIL FIFE CONSTANT LOCATION FOR AZIMUTH OF TRACK POINT CONSTANT LOCATION FOR ELEVATION OF TPACK POINT	F10.0 F10.0
		AZIMUTH AND ELEVATION OF TAIL PIPE AND TRACK PO	
		WERE KNOWN FOR A PARTICULAR PICTURE.	INI
	GO	CARD	
COLUMN	NAME	CESCRIPTION	FORMAT
1-4	KARn	THIS CAFD SIGNALS PROGRAM TO BEGIN PROCESSING	A4
		AFTER REQUESTED DATA HAS TEEN PROCESSED, PROGRA	+
		ALEE MEND HIM CONTINE CANDS	

```
TAPF11 (TNPUT)
THE PROGRAM WILL ACCEPT ONE OF THO TYPES OF TAPE AS INPUT ON UNIT 11, (SEE TAPE CARD).
 THIS IS A TAFF PRODUCED BY PROGRAM PSZOC ON PODIS COMPUTER.

NORMALL THIS TAPE WILL C NTAIN 722 FIGHTEEN BIT HOPDS/RECOPT.

EACH RECORD MAY RE CIVISED INTO THO QUEFERS. THE FIRST BUFFER

CONTAINS 5 SAMPLES OF 1-3 WOPDS/SAMPLE OF RAW AGA DATA. THE

SECOND BUFFER CONTAINS TIME WORDS IN THPFE-WORD SETS AS FOLLOWS.

WORD 1 - TIME, SECONDS

WORD 2 - TIME, WILLESCONDS

WORD 3 - SAMPLE COUNT THOTICATES THE LAST SAMPLE IN THE SAMPLE

GIVEN + THE AVERAGE TIME RETWEEN SAMPLES. IF HORD 3 FOUALS

NO OF SAMPLES (5) THEN ONLY ONE SET OF TIME WOODS WILL BE

GIVEN + THE AVERAGE TIME RETWEEN SAMPLES. IF HORD 3 FOUALS

NO OF SAMPLES (5) THEN ONLY ONE SET OF TIME WOODS WILL BE

GIVEN IN HORD THOSE HIT OF SAMPLE COMPESSION IN TO THE SAMPLE

COUNT IN HORD THOSE +1 TO THE SAMPLE COUNT OF WORD SIX.

IS SOUAL TO THE NO OF SAMPLES. IF THESE HERE A TIME JUMP FOR FVERY SAMPLES OF A RECORD THEN THERE WOULD BE GIVEN A SET OF TIME HORDS

IS SOUAL TO THE NO OF SAMPLES. IF THESE HERE A TIME JUMP FOR FVERY SAMPLE OF A RECORD THEN THERE WOULD BE GIVEN A SET OF TIME HORDS

FOR MATCH OF A REPORT OF A SAMPLE IS AS FOLLOWS

WIRD DESCRIPTION

1-138 ACA DATA (IN PIGHT 12 BITS OF FACH WORD)

139 ITHE COUNT HOPD

1-138 ACA DATA (IN PIGHT 12 BITS OF FACH WORD)

139 ITHE COUNT HOPD

1-18 DATA TYPE

ITHE SOUNTER = A/C LENGTH
                                                                                                                                                  PADDING
COUNTED
DATA TYPE
IF=0J, THEN SAMPLE IS BETWEEN PICTURES,
THE COUNTED = A/C LENGTH
AND WORD 1 CONTAINS THE FOLLOWING
BIT (1-3) =PADDING
3-11 =FILTED POSITION
12-14 =AGEOATURE POSITION
15-16 =GATN POSITION
15-16 =GATN POSITION
17 = VALID DATA SWITCH
18 =CALIBRATE SWITCH

CAMPLE IS A LINE OF
                                                                                                                                                                    IF = 11, THEN SAMPLE IS A LINE OF THE PICTURE, AND THE COUNTER IS THE LINE POSITION IN PICTURE OF NEXT LINE
 TYPE ?. (WHEN ITAPE = 02)

THIS IS A COMPACTED TAPE DONOUTED BY THE PROGRAM FROM A PROPOSITION WITH ITAPE = 1. EACH LOGICAL RECORD IS 2015

SIXIY DIT WORDS.

WOOD DESCRIPTION
10 FILTER POSITION BEFORE
4 GAIN POSITION OFFICE
5 CALIBRATE POSITION OFFICE
6 VALID DATA REFORE
7 A/C LENGTH BEFORE
8 TIME OF FIRST LINE AFTER PICTURE
11 GAIN POSITION AFTER
12 CALIBRATE AFTER
13 CALIBRATE AFTER
14 A/C LENGTH AFTER
15 NO OF LINES IMPUT FOR THIS PICTURE.
16-35 TOP LINES IMPUT FOR THIS PICTURE.
            1995-2015
                                                                                                                      BOTTOM LINE OF PICTURE
```

C. Program GOWENS Setup

This program was developed in-house as a simulation tool to evaluate each frame of IR data efficiently without utilizing large amounts of computer resources (memory, time, etc.) which are required by Program P2171. Program GOWENS will read the same input tape (Tape 11) as Program P2171; sort and process IR data are to be plotted with Program KPLOT.

The following files are used:

Files		Description	Restriction
1.	Input/Tape 5	Cards	Always
2.	Input/Tape 1	Primary data source, same as Tape 11, P2171	Always
3.	Output/Tape 6	Listing of variables (user may select any variable)	Optional
4.	Tape 2/Tape 3	Sort merge	Always
5.	Tape 7	Processed IR data (cataloged)	Always

Program GOWENS Input/Output

- 1. KT Card . . . Frame number card, 1615, to identify those frames to be evaluated. If frame = 0 or -1, program will stop.
- 2. IFIL Card . . . Time ID card, 513,2F10.3, 4A10, select frame by time, filter, gain, and aperture setting. The view is also included.
- 3. Tape 1 . . . Primary IR data source (Eglin AFB).
- 4. Tape 2 . . . File to be sorted, input to Tape 3.
- 5. Tape 3 . . . File containing sorted IR data (maximal to minimal intensity).
- 6. Tape 7 . . . Output of processed IR data, contains frame times, the view if any, largest 200 data values, and the location of each value in the frame.

D. Program KPLOT

Program KPLOT is a mathematical model developed for graphical evaluation of the output produced by Program GOWENS. KPLOT generates bar and point plots by interacting with the Tektronix software plotting routines. In bar plot graphing, the number of IR data points is plotted

versus the intensity range which can be expressed in measurements of counts or watts per steradian. KPLOT will also illustrate a frame of data (100×100 matrix) and show the location and intensity of all hot spots in the frame.

The following files are used:

	Files	Description	Restrictions
1.	Input/Tape 5	Interaction with terminal	Always
2.	Input/Tape 7	Processed IR data	Always
3.	Input/AGII	Tektronix Software	Always
4.	Output/Tape 6	Information display (Plots)	Always

Program KPLOT Input/Output

NOTE KPLOT is an interactive program that is run on a terminal.

- 1. Tape 7 . . . Primary input for KPLOT (same as Tape 7 in GOWENS).
- 2. AGII . . . Tektronix Software.
- 3. Tape 5/Tape 6 . . . interactive I/O with terminal.
- 4. Output . . . barplots, display of frame and location of heat sources. (Figures 1 and 2).

VIII. COMPUTER PROGRAM LISTINGS

The listing for BASES Program P2171 is presented in Appendix A. Program GOWENS follows in Appendix B. Program KPLOT listings are contained in Appendix C.

IX. SUMMARY

The nine different computer models outlined and described in the introduction all utilize different discriminants to investigate the spatial radiance of target and clutter. Of the nine different computer models, only three are contained in the Computer Program Listing (Appendices A, B, and C) in order to minimize the size of this report. In the case of energy computer model described in the report the overlapping areas between target and clutter represent a loss function where targets would be classified as clutter or vice versa. In the search for a means to minimize this loss function, the authors believe the Graphics target clutter frame-to-frame comparison model coupled with

the two-dimensional gradient and spatial discriminator model offer the most effective and sophisticated approach to optimize the true target selection criteria for most clutter conditions.

However, it is anticipated that even after maximizing the use of these two computer models in complex clutter environments, some loss function may still exist. Consequently, additional independent samples of data should be utilized with multispectral data reduction algorithms for further reduction of the previously mentioned loss function.

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- Robinson, D. Z., "Methods of Background Description and Their Utility," <u>Proceedings of IRE</u>, Vol. 47, No. 9, September 1959, pp. 1554-1561.
- Tsutsumi, S. and Takgi, T., "Optimum Spatial Filter for an Anisotropic Background Noise," <u>Electronics and Communications in Japan</u>, Vol. 54-C, No. 9, 1971.
- 4. Itakura, et al., "Statistical Properties of the Background Noise for the Atmospheric Windows in the Intermediate IR Region," <u>Infrared Physics</u>, Vol. 14, Great Britain, Pergammon Press, 1974, pp. 17-29.
- 5. Tsutsumi, S., "Spatial Filter Used in Scanning Optical Systems,"

 <u>Electronics and Communications in Japan</u>, June 1966, p. 13.

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Appendix A. LISTING FOR BASES PROGRAM P2171

					TACTOLL.
					PT01S4T
				* * * * * *	198184
					PT0154T
		****		:::	PT0154T
				::	PT0154T
			****	:	PTOISHT
			***	-	PT0154T
***		***	**		P701347
				::	PT0154T
***************************************	******	***********	**********	***************************************	:

UNLABEL	UNLABELED GLOFL	IDENT SEPT12	UPDATE 1.2-74352.	09/29/76 12.57.18.	PAGE 1	
:	* IDENT SEP	SEP112				
11111	*INSERT HAYPS	1779.38				1
	135=	I3S=ICS*10				
min	*INSERT MAYPS. 44	1175.44				-
	=SCI	13S=ICS*10				
111111	*INSERT MAY75.49	1775.49				1
	1.03	1.55=16.5*10				
11111	SHARE INCRECEDED	SHAROHITAS HADACKITA, MIRA, MILITA				
-	DIN	DESCRIPTION TRAINING AND ADDRESS OF THE STATE OF THE STAT				
	CALL	CALL GETMSK (MASK)				
	0=1					1
	100					
	TIEM	MAITHER				
	10 1=1+1					1
	KTAB	KTAB=MTAB(I)				
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		M3IT=MBIT+KTA9				
	11 CF 02	07-60-7-07-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				1
		179400-1764				
	1 05	50 TO 25				
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	ADIE	MOIF=MBIT-KTAB				
		17 (MOI F) 50 + 60 + 40				1
-	SOUT OC	THORDE SHIP I LAND LINING HOUSE STREET IN THOSE I				2
	TIEM	MAIT=60+MOIF				
-	HOW	MOUTIN: -OR LINORD, AND (SHIFTIN (HWORD); -HBIT; , MASKI-HDIF;);	HEILI			1
	1 05	50 10 10				
	70 4317=60	HOUSELD FANDIEN CHROKUS, MASKIKSABSS				
-	- T	MADROE MADRO 0+1				-
	1000	50 TO 10				
-	1317					-
	nck	43UT(M)=AND(SHIFT(IN(MMORD),-MDIF),MASK(KTAB))				
	90 RETURN	Na.				
-	ON3					1
		SUBROUTINE DONE (IT)				
	PAUS	PAUSE " MOUNT NEXT TAPE IT, AND HOUNT NEXT TAPE.				-
	FND					1
-	SUBR	SUBROUTINE GETHSKLIM				-
	DIME	DIMENSION IM(60)				
-	DATA	DATA MASK/ 6000000000000000000000000000000000000	manufacture of the second control of the sec			-
	IN	I4(I)=MASK				
		IM(I) = OR (SHIFT (IM(I-1), 1), MASK)				
-	10 000	CONTINUE TH (SR) = 1777777777777777777777				1
-	14(9	14(59)=37777777777777777				
	1466	I4(60) =77777777777777777				

	MODIFICATIONS / CONTROL CARDS			
невио	105=105+10			
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THERMO	SUBROUTINE UNPACKETM, MTAR, MCUT)	\$69112	-	
PHERMO	I	35-116		-
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THERMO	1911=00	SEPT12	97	
THERMO	1.191 N 1.191	356726	=	-
THERMO		SEPTIZ	77	
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THERMO		SEP112	15	-
PHERMO	NORDE BEORDE	SEPT12	16	1
THERMO	60 10 25	SEP 112	1.9	
THERMO	MOLE HART FELTA	SEPT12	\$	-
FHERMO		SEFIIC	200	•
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FHERMO	•	969112	33	
THERMO	60 TO 10	SEPT12	56	
THERMO	M317=60	SEPTIE	- F	-
PHERMO	HWORDS HWORDY.	360116		
FHERMO	60 TO 10	SEP112	8:	
THERMO		SEP112	32	
THERMO	50 TO 10	SEPT12	33	
MERNO	- 1	SEPTIZ	*	
THERMO	SUBROUTINE	SEPT12	36	
HERMO	SUCKOUTINE TO DISHOUNT TAPE IT, AND HOUNT NEXT TAPE.	SEPT12	- 33	-
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THERMO		SEPTIS	53	
FHERMO		35.436		
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Tueban			-	

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C		COMMON/PLIM/IFOR, IBACK, ILEFT, IZIGHT, IVIEW, IPASS	THERMO	12
C	**3	** THIS PROGRAM READS AN AGA THERNOVISION TAPE PRODUCED BY P9200.	THERMO	-
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C C C C C C C C C C	ی د	NSE-NO. OF SAMPLES/RECORD ON I/P TAPE (1-5)	THERMO	119
C EE/D= NOA OF FILES RIAD, THERNO		ONE - NO OF HILLISCONDS/SAMPLE ON I/F TAPES	PHERMO	83
C START= START THE STOP THAE THAN STOP THE THERMO C START= START THE IN HILLISECONDS. C STOP= 1, PRINT THE IN SHITCH SETTINGS. E 1, PRINT THE IN SHITCH SETTINGS. C STOP= 1, PRINT THE AND SHITCH SETTINGS. C STOP= 1, PRINT THE SETTINGS. C STOP 1, PRINT THE SETINGS. C STOP 1, PRESETTINGS. C STOP 1, PRINT THE SETTINGS. C S	20 67	IEND= NOD OF FILES RIAD.	THERMO	12
C START= START TIME IN MILLISECONDS. C STOR= STOR TIME IN MILLISECONDS. C = 1. PRINT TIME AND MICH SETTINGS. C = 1. PRINT TIME AND SWITCH SETTINGS. C = 2. PRINT TIME SAND WORDS SPECIFIED. C FLOT= 0. NO PLOT OF PRINTED STORES. C = 2. PLOT 2D OF LINES AND MORDS SPECIFIED. C = 1. MAKE PACKED O/P TAPE C = 1. MAKE PACKED	3	JSTOP=1, IF TIME GFEATER THAN STOP TIME	THERMO	13
C STARTS START THE 1M MILITSECONDS. C STARTS START THE 1M MILITSECONDS. C STOP TIME IN MILITSECONDS. C STOP THE IN MILITSECONDS. C STOP THE NO SHICH SETTINGS. THERNO C STOP THE SHICH SETTINGS. THERNO C SHICH SHOW SHICH SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO C SHICH SHOW SHOW SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO C SHICH SHOW SHOW SETTINGS. THERNO C SHICH SHOW SHOW SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO C SHICH SHOW SHOW SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO C SHICH SHOW SHOW SETTINGS. THERNO C SHICH SHOW SETTINGS. THERNO THER	3	=0. OTHERMISE.	THERMO	23
C STOP= SIOP INE THE MILLISECOMUS. C 184147 0 100 PRINTING SETTINGS. 21. PRINT THAT AND SWITCH SETTINGS. C 21. PRINT THAT AND SWITCH SETTINGS. C 21. PLOT 30 INMED OF PIGTURE C 22. PLOT 20 OF LINES AND WORDS SPECIFIED. C 21. MAKE PACKED O/P TAPE C 31. MAKE PACKED O/P TAPE C 32. MAKE PACKED O/P TAPE C 34. MAKE PACKED O/P TAPE C 35. MAKE PACKED O/P TAPE C 36. MAKE PACKED O/P TAPE C 37. MAKE PACKED O/P TAPE C 38. MAKE PACKED O/P TAPE C 48. MAKE PACKED O/P TAPE C 57. MAKE PACKED O/P TAPE C 58. MAKE PACKED O/P TAPE C 68. MAKE PACKED O/P TAPE C	3	START START TIME IN MILLISECONDS.	THERMO	*2
C IFLOT 0 FAINT THE AND SWITCH SETTINGS. -1 PRINT THE AND SWITCH SETTINGS. -1 PRINT THE SAID WORDS SPECIFIED. -2 PLOT 20 ILINES AND WORDS SPECIFIED. -1 PRINT THE WORD SPECIFIED. -2 PLOT 20 ILINES AND WORDS SPECIFIED. -2 PLOT 20 ILINES AND WORDS SPECIFIED. -3 PLOT 20 ILINES AND WORDS SPECIFIED. -4 HERMO -4	.	STOP= STOP TIME IN MILLISECONDS.	INERNO	63
C IFLOT=0, NO PLOT OF PRINT THE STITUES, AND SPECIFIED 40005. THERNO C = 1, PRINT THE STITUES, AND SPECIFIED. THERNO C = 2, PLOT 20 OF LINES AND MOROS SPECIFIED. THERNO C = 1, MAKE PACKED O/P TAPE C = 1, MAKE PACKED O/	3 63	LYKINI - UP NO TRIBITO OVE	THERMO	22
C IPLOT=0, NO PLOT O/P 1 1 PLOT 30 IMEE OF PIGIUME C =2, PLOT 20 OF LINES AND WORDS SPECIFIED. 1 1 AKE PACKED O/P TAPE C =1, MAKE PACKED O/P TAPE C =1, MAKE PACKED O/P TAPE C DIMENSION LABEL(2.25), KRD(0), IOPT(10) DIMENSION LABEL(2.25), KRD(0), IOPT(10) COMMON (CLASF, IILLE(0) DIMENSION LABEL(2.25), KRD(0), IOPT(10) COMMON (CLASF, IILLE(0) DIMENSION REPORTED THE NO COMMON (CLASF, IILLE(0) DATA TAPLO/30+0./ DATA COMM/25641.0 DATA COMM/25641.0 DATA LABEL/501H COMMON (CLASF, IILLE(0) DATA LABEL/501H DATA COMM/25641.0 DATA LABEL/501H DATA COMM/25641.0 DATA LABEL/501H DATA COMM/25641.0 DATA LABEL/501H DATA COMM/25641.0 DATA LABEL/501H DATA COMMON (CLASF, IILLE(0) DATA LABEL/501H DATA LA	, 0	at. PRINT TIME SETTINGS, AND SPECIFIED 40005.	THERMO	88
C = 1, PLOT 30 IPAGE OF PICTURE C		NO PLOT O/P	THERMO	62
C	3	PLOT 30 IMAGE OF PICTURE	THERMO	2 2
THERMO	30	PLUI 20 UF LINES AND MORUS	216	35
HERMO DIMENSION CONVIGECT. TAPIBISO THERMO THERMO DIMENSION CONVIGECT. TAPIBISO THERMO THERMO THERMO CLAST ICLASS. ITLE(8) THERMO THEMO THE THEMO THE THEMO THE THEMO		#1. MAKE PACKED O/P TAPE	THERMO	33
DIMENSION CONVIGETORS THERMO DIMENSION NOELECTORS TREAD DIMENSION NOELECTORS TREAD CONHON CLASS TILLE(8) DIMENSION PILITOR DIMENSION PICTIOC 100 COUTVALENCE (PICTIOL 10			THERMO	*
DIMENSION CONVIST: 1 TAPIDIS 100 TIMENO DIMENSION TOELE(E125) KRD(8) JOPT(10) DIMENSION TOELE(E125) KRD(8) JOPT(10) DIMENSION FILLT(8) DIMENSION FILLT(8) DIMENSION FILLT(8) CQUIVALENCE(IPIC(11001), XPICT(11)) CQUIVALENCE(IPIC(11), 1) TPIC(11001), XPICT(11)) CQUIVALENCE(IPIC(11), 1) TPIC(11001), XPICT(11)) CQUIVALENCE(IPIC(11), 1) TPIC(1101) DATA TAPID/30*0, DATA TAPID/30*0, DATA LABEL/50*1, 5/1 DATA LABEL/50*1, 6/1 DATA LA			THERMO	35
DITENTION COLECTION COLE	35	DIMENSION CONVIGERATIONS	THERMO	378
COMMON / CLASF / ICLESS.TITLE(8)		DITTERS OF LANGE CONTRACTOR AND CONT	0110	30
DIMENSION IFILTION DIMENSION FIECTION DIMENSION APPECITATION DIMENSION APPECITATION DIMENSION APPECITATION DIMENSION APPECITATION EQUIVALENCE IPECITATION LOGICAL IPESON DATA CONVESSOR DATA CONVESSOR DATA LABEL/50*11 / 10424 5.5		COMMON ACLASS ITTLE (8)	THERMO	39
DIMENSION IPIC(1106,160) THERMO		DIMENSION IFILT(0)	THERMO	649
EQUIVALENCE (19101), XPICT((1)) EQUIVALENCE (19101), XPICT((1)) EQUIVALENCE (19101), XPICT((1)) CQUIVALENCE (19101), XPICT((1)) LOGICAL IPL30.1PL20 DATA TAP10/30*0,/ DATA LABEL/50*1, 5/ DATA LABEL/50*1, 6/ 1013.97-4.81 1013.97-4.81 1014.9 - 5.5 111ERHO	0,	OIMENSION IPIC(100,160)	THERMO	14
EQUIVALENCE(IPICY(10001), XPICT(1)) CQUIVALENCE(IPICAT; 1) ** ** ** ** ** ** ** ** ** ** ** ** **		DIHENSION XPICT(196+	THERMO	24
COUTALENCE (1F12011) (11110FF0R11) (11110FF0R11) (11110FR) LOGICAL IPL20 DATA TAP10/30*0./ DATA LABEL/50*1.0' OATA LABEL/50*1.0' 10H3.97 -4.81 10H3.97 -4.81 10H3.97 -4.81 10H2.4 - 5.5 10H2.4 - 5.5 10H2.4 - 5.5 10H2.4 - 5.5 10H2.9 - 3.8 10HERHO 10HERH		EQUIVALENCE (IPICT (10001) , XPICT (11)	THERMO	£.4.
DATA TAPIO/30*0./ DATA TAPIO/30*0./ DATA CONV/256*1.*0' OATA LABEL/50*1H / OATA LABEL/50*1H / 10H3.97 -4.81 , THERMO 10H3.97 -4.81 , THERMO 10H2.0 - 5.5 , THERMO		EQUIVALENCE LIPIGALITITE FOR A 11 TO FFOR LIPITATION OF THE NATIONAL STATE OF THE NATION	THERMO	, ,
DATA TAP10/30*0./ DATA CANV/256*1.8/ DATA LABEL/30*14 / 1948.40 - 5.5 / 148.40 MATA LFLT / 1948.40 - 5.5 / 148.40 MATA LFLT / 1948.40 - 5.5 / 148.40 MERMO 1042.3 - 3.8 / 148.40 MERMO 1042.9 - 3.8 / 148.40		LUGICAL IPLSU-IPLEU	THERMO	94
DATA CONV/256-1:0/ DATA LASE / 5014 THERNO 0414 EFLT / 10H3.97-4.81 THERNO 10H3.97-4.81 THERNO 10H2.0 - 5.5 THERNO 10H2.3 - 3.8 THERNO 10H2.9 - 3.8 THERNO THERNO THERNO THERNO THERNO THERNO THERNO	**	DATA TAP10/30*0./	THERMO	
0414 EFILT / 10HE:0 - 5.5 , HERMO 0414 EFILT / 10HE:0 - 5.5 , HERMO 0 , 10HE:0 - 4.61 , HERMO 10HE:0 - 5.5 , HERMO 0 , 10HE:0 - 5.5 , HERMO 0 , 10HE:0 - 5.5 , HERMO 0		DATA CONVESTOR DA	THERMO	0,
0		DATA LABEL/50*1H /	THERMO	64
10H3.97-4.81 . THERMO 10H3.97-4.81 . THERMO 10H2.0 - 5.5 . THERMO 10H2.3 - 3.3 . THERMO 10H2.9 - 3.8 . THERMO 10H2.9 . THERMO 10H2.9 . 3.8 . THERMO 10H2.9 . THERMO		Iffer !	THERMO	95
THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERMO	2.0	. 1043.97-4.81 .	THERMO	21
- 5.5 FERMO		5.5	THERMO	53
- 3.8 . THERMO		3.3	THERMO	54
			THERMO	55

	Constant VALUES.	THEKHO	**	
	NWS=140	THERMO	99	
90	MSR89	Тиекио	10	
	ONE=12.305	THERMO	29	
	TITLE (1)=1H	THERMO	3 3	
	LABELI (1) 11-10H	THERHO	68	
59	2 CONTINUE	THERMO	99	
	I ABEL (1. STATUMETITED =	THERMO	6.0	
-		THERMO	6.6	-
	LIN9=-1	THERMO	70	
2	-	THERMO	-:	
-	ILCENI=50	I NEKNO	77	
	RESLIN=10./69	THERMO	2.2	
	RESMD=5.749	THERMO	13	-
7.5	RADLIN=RESLIN* . 0174532952	THERMO	. 26	The second second
	KADNO-KESNO - 0114532952	CHERSE.	7.8	
	TETRO-KAULTN-KAUNU	CHESKI		
	ISLEFT=1	THERMO	00	
8.0	ISRITE=100	THERMO	18	-
	IB0VE=1	THERMO	95	
	186104-100	THERMO	62	
	Olff Tap . 1	Uncard I Treats		
95	DRIGHT=8.0	THERMO	96	
	DABOVE=2.2	THERMO	10	
	DBELOW=-2.2	THERMO	99	
	10EL=0	THERMO	66	
0.6	NFRHTX=4	THERMO	16	
	SR=500.	THERMO	92	
	510-1 A	THEFT	2 8	
	1000 - 10	LAERHO		
66	YTRK=-9999.	THERMO	96	
	R8=270.0	THERMO	- 6	
	0.7=0	THERMO	86	
	A 7 X X 10 • 0	CHOSIL		
-	1 10 to	C18311		
	ABIAS=0.0	THERMO	102	
	EBIAS=0.0	THERMO	103	-
	IMXCT=-1	THERMO	104	
	115£k0=0	THERMO	105	-
105	I SENDED	CHERT	200	
	OPP LIGHT	THERMO	108	
-	I dK=0	THERMO	109	-
	HINVAL=0	THERMO	110	
110	HKALZO	THERMO	##	-
	IEUCNT=100	THERMO	112	
	HINEOT=20	THERMO	1113	

-	OFFICE O.	THERMO	-	
	I FORE 100	THERMO	174	
	BACKET	THERMO	641	-
175	ILEFT=1	THERMO	176	
-	INTENTALOG	THERMO	111	
	ICMT30=-1	THERMO	178	
	I-MAINI	THERMO	1	
	ICKSTR=1	THERMO	180	
180	۲	THERMO	101	
	*** PR	THERMO	195	
-		THERMO	183	
	CALL REPRINT	THERMO	184	
	2	THERMO	601	
102	11 11 11 11 11 11 11 11 11 11 11 11 11	INCKHO	100	
	TECTEMENT FO. 1. ANT. ITSEND. FO. 1) FND FILE 12	THERMO		
-	TI SENDE TO THE TENDE TO THE TE	CHAPAN		
	NEWPAS=1	THERMO	190	
190	ICN13D=-I	THERMO	1	
	Z	THERMO	192 .	
	12 CONTINUE	THERMO	61	
		THERMO	196	
105	15 IF	THERMO	461	
200	1	- CHESTIN	200	
	14 CONTINUE	THERMO	198	
-	1002 FORHATIBALO!	THERMO	199	-
		THERMO	200	
002	P	THERMO	102	
	1003 FURHAILIZ.OK.ZAIL)	INEKHO	202	
	13 CONTINUE	THERMO	502	
	, 0	THERMO	502	
502	ITAP=2	THERMO	506	
	1	THERMO	207	
	-	THERMO	208	
	_	THERMO	603	
940	TECHNOLOGY CONTROL OF THE	THERMO	017	
013	2 2	THERMO	213	
		THERMO	-	-
		THERMO	214	
	IF (KARD, Eq. + M. IMI)60 TO 150	THERMO	\$13	
512		THERMO	216	
	*	THERMO	217	-
	THE STATE OF THE S	HEKHO	219	
	TERMONE EN ANCINATION TO 190	TUCONO	228	
000	TELEMENT ENGINEERS TO THE	LICORD	022	
0.77	IF (KARD, EQ. 4HMIN) GO TO 196	THERMO	222	
-	IF (KARD. EQ. 4HHATF 160 TO 1940	THERMO	223	The second second
	IF INARD. EU. 4HTAIL 160 TO 198	THERMO	422	
	E	THERMO	525	
525	IF (KARD.EQ.4HGO) GO TO 200	THERMO	226	
	1	THE KIND		
	COOK TOTAL TOT OF THE CONTRACT OF THE FOLLOWING THE FOLLOWING		• • • • • • • • • • • • • • • • • • • •	

100 CONTINUE CAN READ THOU TITLE			•				
		=		THERMO	982		
		6 CONTINUE		THERMO	231		
		TLE CAR		THERMO	232		-
10 CONTINUE CONT		READIS. 10		THERMO	233		
100 CONTINUED 101 CONTINUED 102 CONTINUED 103 CONTINUED 104 CONTINUED 105 CONTINUE		IF (EOF 14) 1 200 . 101 . 200	Man of the second business of the second busi	THERMO	234		-
1100 CONTINUE CO				THERMO	235		
110 CONTINUE CANDIDATE	8			CHARAC	882		
1100 CONTINUE CO				THERMO	237		
		6.3		THERM	734		1
Interest	•			THERMO	239		
				-	240		-
If 100 15 100	24.0	LJSUM=10PT(10)		THERMO	241		
IF 1.15 = 1 F 1.0	200	10.10.01 to 10.10.01		- Comment			
		TOTAL ST. TOTAL		THERMO	242		
		1611001101 NC A110301 4=1001101		THERMO	543		
If (100 10 10 10 10 10 10 10		TATION CONTRACTOR OF THE PROPERTY OF THE PROPE		INCKHO	***		
If If If If If If If If		TELTOPI (3) ONE OF THE OF THE OF I (3)		THERMO	642		
	545	IF LIOPT (4) . NE. O) IP 30M1=10PT (4)		THERMO	546		-
INTERPORTED		IF (IOPT (5) . NE. 0) IP 30M2=IOPT (5)		THERMO	242		
INTER-10PT(7) FRENCE IF LUVE H.LT.1.00R.IVIEH=1 THERNO TOTAL		IF(10PT(6) .NE. 0)NPL 30=10PT(6)		FERMO	200		1
I		IVIEW=IOPT(7) .		THERMO	548		
If (VIEW LT 1.1.0R.1VIEW GT 4.1 IVER = 1 I (VIEW LT 1.1.0R.1VIEW GT 4.1 IVER I I (VIEW LT 1.10R.1VIEW GT 4.1 IVER I I I I I I I I I	The second of th	IPASS=-1		THERMO	650		1
1101 FOR FO	250	IF (IVIEM.LT. 1.0R. IVIEM. GT.4) IVIEW=1		THERMO	251		
1101 FOR=FP30L2		60 10 (1101,1102,1103,1104),1VIEW		THERMO	253	-	1
11667 = 193041	11	-		THERMO	253		
ILEFT=IP30W ILEFW I		1		-	-		
THE CONTINUE THE		ILEFT=IP3DM1		THEDMO	255		
1102 105 1105 1105 1108 1	556	IRIGHTerp30W2		145040	256		
1102 150R=1930W1 116RR0 120M1 116FR0 120M1 116FR0 120M1 116FR0 120M1 120		60 10 1105		THERMO	257		
1846K=1930H1	#			THERMO	650	-	-
ILETT=IP30L1		-		THERMO	259		
IRIGHT=IP30L1		ittfTeIP30t2	The state of the s	FHERMO	893		
1103 IFOR=IP30L1 1EFT=IP30L1 1EFT=IP30L1 1EFT=IP30L2 1EFT=IP30L2 1104 IFOR=IP30L2 1105 CONTINUE UAXIS=UEFT UAXIS—UEFT	260	IRIGHT=IP30L1		THERMO	261		
1103 IFOR=IP30L1		60 10 1105		THERMO	393		1
International Continue International Conti	11			THERMO	263		
ILEFT=IP3DM2	And the last of th	-		THERMO	\$97	*	-
116" IFORT F D D D D D D D D D D D D D D D D D D		ILEFT=IP30M2		THERMO	592		
1164 GO 1105 1167 FORE FORE FORE 1866 = 1930 1867 = 1930 1867 = 1930 1867 = 1930 1867 = 1930 1867 = 1930 1867 = 1930 1867 = 1930 1868 186	603	IRIGHT-1P30w1	Control of the last of the las	FHERMO	954	-	1
116% 150%				THERMO	267		
1864=1P30W2	11	-	A design of a section of the section	THERMO	568		1
ILEFT=1P490t.1		I BACK=IP30W2		THERMO	692		
IRENO		ILEFT=IP30L1		THERMO	679	-	1
1105 CONTINUE UPORLIFOR UPORLETETOR VEFT=ILET THERMO 112 CONTINUE CONTINUE CONTINUE CONTINUE CONTINUE CONTINUE THERMO	270	IRIGHT=IP30L2		THERMO	271		
UPGREIFOR UPGREIFOR VLEFILEFT VRIGHT=IRIGHT UAXIS=VLEFT UAXIS=VLEFT UAXIS=VLEFT UAXIS=VLEFT UAXIS=VLEFT UAXIS=VLEFT VAXIS=VLEFT VAXIS VAXIS=VLEFT VAXIS VAXI	#		The same of the same of the same of	PHERMO	***		1
VLEFT=1LEFT		UFOR=IFOR		THERMO	273		
VEFFILEFT VRIGHT=RIGHT UAXIS=VEFT VAXIS=VEFT VAXIS		UBACK=I BACK	the state of the second section is a second section of the second section of the second section is section.	THERMO	274		-
VAISHTERIGHT UAXIS=VLEFI VAXIS=VBACK GC TO 12 CONTINUE GO TO 12 CONTINUE CONTINUE CONTINUE FRENO 120 CONTINUE FRENO F		VLEFT=ILEFT		THERMO	275		
112 GOVINUE 5G TO 12 GOT 10 12 GOT 10 12 GOT 10 12 GOT 10 12 FRERHO 120 120 120 120 120 120 120 12	515	VRIGHT=IRIGHT		THERMO	876		-
112 CONTINUE CO		UAXIS=VLEFI		THERMO	277		
112 CONTINUE 60 10 12 120 CONTINUE 60 10 12 120 CONTINUE 60 10 12 1HERNO 1FORMATE ADDITION CARD 1FORMATE ADDITION		FO TO 12		THERMO	220		
12 CONTINUE CONTINUE CONTINUE CONTINUE THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERMO	•	,		THERMO	613		
120 CONTINUE C**** PRINT OPTION CARD FRANT-LOPICAL THERNO FIRENO FIRENO FIRENO FIRENO FIRENO FIRENO FIRENO FIRENO				THEKING	200		
PRINT OFFICE CARD THERMO THERMO THERMO THERMO THERMO THERMO THERMO		,		THERMO	192		
IF (IOPT 7) - NE - OITPUL = IOPT (7)	:5	a.		THERMO	283		
011PVL=10PT(7)				2115040	***		

	Nº 161 THO	THERMO	102	
	PT (10).	THERMO	288	
	IF (IOPT(2), NE. () IFR(1=IOPT(2)+1	THERMO	290	
062	IFITOPICSI.ME. 0) IPRLZ*IOPTCS)	THERMO	16.2	
		THERMO	262	
	IFIOPTION NE OLIOPTION NE	THERMO	26.2	
		THERMO		
562		THERMO	236	
	C++++ TAPE OPTION CARD	THERMO	162	
	ITAPE=10PT(1)	THERMO	298	
	IP(10PT(2)-NE-0)*SK-10PT(2)	THERMO	***	
	LISE NOT LOS	INEKNO	200	
	60 TO 12	THERMO	302	
	-	THERMO	383	7
	TIME	THERMO	304	5 - 100 (3
305	510P1 (51/10.	THERMO	306	
-	310P= 10P1(61-3600.000->10P1(71-60000->10P1(81-10P1(91-10P1(91-10P1(91-10P1)	THERMO	-	
	. +IOPT(18)/10.	THERMO	308	
	ICKSTR=1	THERMO	309	
	ICKSTP=0	THERMO	310	
210	TF(CTOP.IT. 011CTOP=000000000.	THEBMU	34.2	
	IF(X1.6f.0.1)WFN=X1	THERMO	913	
	60 10 12	THERMO	314	
	CONTIN	THERMO	315	
315	C+++ DELETE CARD	INERNO	310	
	INFL+1	THERMO	318	
	TOELE (1, 10EL) = 10P1(1) + 36 00000 . + 10P1(2) +60000. + 10P1(3) + 1000.	THERMO	916	
	. +IOPT(4) *10.+IOPT(5)/10.	THERMO	320	
320	TOELE (2,10EL) = 10PT(6) *3600000. *10PT(7) *60000. *10PT(6) *1000.	THERMO	321	
		-	350	
	CONTINUE	THERMO	324	
	C**** TOP CARD. THIS CARD SETS THE LINE TO BE TOP OF PICTURE.	THERMO	359	
325	ITOP=IOPT(1)	THERMO	326	
	C*** CLASSIFICATION CAFD. 1=CONFIDENTIAL. 2=SECRET.	THERMO	326	
	CONTINUE	PHERMO	926	
	ICLASS=IOPT(1)	THERMO	330	
330	ICLER#1	THERMO	332	
-	60 10 12	THERMO	333	Charles of the Control of the Contro
	C**** VALIC DATA SMITCH CARD	THERMO	334	
***	170 CONTINUE	OH SHIP	235	
222	14410-107111	THEBRO	220	
		THERMO	338	
	C++++ THIS CARD SELECTS CALIBRATION FRAMES ONLY	THERMO	339	 Section of the last of the last
	180 CONTINUE	THERMO	340	
940	10AL=10PT(1)	FHERMO		

190 CONTINUE INTERPORTED THERMO		C TCALIBRATION TO CONVERT FROM COUNTS TO TREADIANCE FOR A GIVEN C FILTER, APERATURE, GAIN SETTING.	THERMO	345	
	3:5		THERMO	346	
FILL		IFIOPT(2)+1	THERMO	348	
CONVILE TATES CARD. THIS CARD SPECIFIES CENTER LINE, WORD AND AND MACHAER THERMO 192 CONVINCE THIS CARD. SPECIFIES CENTER LINE, WORD AND ANGULAR THERMO 192 CONVINCE THIS CARD. SPECIFIES CENTER LINE, WORD AND ANGULAR THERMO 193 CONTINUE THIS CARD. THE PICTURE THE PICTURE TO THE THIRD THE PICTURE. THE PICTURE THIS CARD.	350	16-10-10-103 IF(IA.6T.8.0R.IF.6T.8.GR.IG.6T.4)6G TO 12	THERMO	351	
C**** GENER CARO, THIE CARO SPECIFIES CENTER LINE, WARD AND ANGULAR THERMO CONTINUED FILTER CELT. 192 CONTINUED CONTINUED FILTER CELT. 104 CONTINUED CONTI		CONV(IF, IA, IG) = x1	THERMO	355	
192 CONTINUE 192 CONTINUE 193 CONTINUE 194 CONTINUE 195 CONTINUE 196 CONTINUE 196 CONTINUE 197 CONTINUE 198 CONTINUE 199 CONTINUE 198 CONTINUE 19			THERMO	354	1
192 CONTINUE CONTINUE CARD CONTINUE CARD CAR	366	CENTER CARD. THIS	THERMO	355	
10.EKN = 1.0P f(2)		CONTINUE	THERMO	357	
HAGEN-107(2) HAGEN			THERMO	350	
RESENDANCE RESENDANCE RESENDANCE RESENDANCE RESENDANCE RESENDANCE 10 3E REGO. (TAPE 10) RESENDANCE 118 REGO. (TAPE 10) RESENDANCE RE	-	INCENT=IOPT(2)	THERMO	359	
	36.0	RESUDEX2	THERMO	361	
Thermoon C		60 70 12	FHERMO	306	
The continue Conti		* TRACK POINT CARD.		363	
194 194		TO BE READ. (TAPE		365	
	265	9	THERMO	366	
		100100	FIFEREN	36/	
Continue Continue Continue Continue Internation of the continue Continu			THERMO	369	
1940 CONTINUE C++++ MAIRIX CARD. THIS CARD SPECIFIES MATRIX TO BE OUTPUT THERMO DEFFECT INTX-IOPT(1) OLEFT-XI INTX-IOPT(1) OLEFT-XI INFRMTX-X-3 IF (ABS) (X.1)IT00C001) OLEFT7 INFRMO IF (ABS) (X.1)IT00C001) OLEFT7 INFRMO C+++++++++++++++++++++++++++++++++++	37.0	FOIASEX2	THERMO	370	
1940 CONTINUE C**** HATRIX CARD. THIS CARD SPECIFIES MATRIX TO BE OUTPUT IMIX=IOPT(1) DEFF=X1 ORIGHT=X2 ORIGHT=X2 ORIGHT=X2 IF (ABS (X2).LT00C001)DLEFT=-,7 IF (ABS (X2).LT00C001)D		21 01 09	FHERMO	372	
IMIX=10PT(1) DRIGHT=X2 IMIX=10PT(1) IF (ABS (X1)-LT00C001)DLEFT=-,7 IF (ABS (X2)-LT00C001)DLEFT=-,7 IF (ABS (X2)			THERMO	373	
IMIX=IOPT(1) OLEFT=XI OLEFT=XI ORIGHT=X2 IF (ABS (X1) - LT		MATRIX CARD. THIS CARD SPECIFIES MATRIX TO BE	THERMO	375	
DEGHT=X1 FARTIX-X1 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CT00C0011DLEFT=-,7 FARSIXIALL.CTCTCTCTCTCTCTCTCTC		IMIX=IOPT(1)	THERMO	377	
IFERNO IF (ABSISTAL).LT00C0011)DLEFT=-,7 IF (ABSISTAL).LT00C0011)DLEFT=-,7 IF (ABSISTAL).LT00C0011)DLEFT=-,7 IF (ABSISTAL).LT00C0011)DLEFT=-,7 IFERNO IFF (ABSISTAL).LT00C0011)DLEFT=-,7 IFERNO IFE		OBIGHI-Y2	THERMO	376	
IF (ABS (XI) . LT		XX-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	HERMO	57.5	
If Indestry 1.1 ### ### #######################	360	IF(ABS(X1).LT000001)DLEFT=-,7	THERMO	361	
THERMO If (MERNIX - 1907 (3) RECL = 1077 (3) RECL = 1077 (3) RECL = 1077 (3) INERMO IFRIX - 1007 (5) GC TO IE CONTINUE HIS CARD CHANGES THE MINIMUM VALUE FOR WHICH TO EDIT THE CONTINUE HIS CARD CHANGES THE MINIMUM VALUE FOR WHICH TO EDIT THE CONTINUE HIS THERMO GOOD IS CONTINUE C		IFT465 TX21 .LT00000110RIGHT=10.0	THERMO	305	
RECELLIOPTIST IFERTALIOPTIST IFERTALIOPTIST GETO 12 C**** THIS CARD CHANGES INE MINIMUM VALUE FOR WHICH TO EDIT 1-1E C VALUE THEN THE MAXIMUM VALUE FOR WHICH TO EDIT 1-1E C VALUE THEN THE MAXIMUM VALUE FOR WHICH TO EDIT 1-1E C VALUE THEN THE PECTURE WILL NOT BE PLOTTED. 106FAU. THISTHUM-EDIT THERMO C VALUE THEN THE PECTURE WILL NOT BE PLOTTED. 106FAU. THISTHUM-EDIT THERMO C VALUE THEN THIS THERMO C VALUE THEN THIS THERMO THERMO C ON TURNS OFF EDIT IF REQUESTED.		TELECONIA CO ONICONIA	THERMO	363	
IFECT-IOPTICE IFRENTX-IOPTICE GETO 12 C VALCE THEN THE MAXIMUM VALUE FOR WHICH TO EDIT THE THERMO C VALCE THEN THE PACIFICATION VALUE FOR WHICH TO EDIT THE THERMO C VALCE THEN THE PACIFICATION VALUE FOR WHICH TO EDIT THE THERMO C VALCE THEN THE PACIFICATION VALUE FOR HICH THIS THERMO C VALCE THEN THE PACIFICATION VALUE FOR PICTOR THERMO C VALCE THEN THIS THERMO FIRST THERMO C ON TURNS OFF EDIT IF REQUESTED.		RBCELL=10PT(3)	THERMO	385	
C**** THIS CARD CHANGES THE HINIMUM VALUE FOR WHICH TO EDIT THE THERMO C PICTURE. IF THE MAXIMUM VALUE FOR WHICH TO EDIT THE THERMO C VALUET THEN THE PECTURE WILL NOT BE PLOTTED. TOCFAULT HINIMUM-EDIT THERMO 196 CONTINUE C VALUET THEN THE PECTURE WILL NOT BE PLOTTED. TOCFAULT HINIMUM-EDIT THERMO C VALUET THEN THE PECTURE WILL NOT BE PLOTTED. THERMO C THERMO C ON TURNS OFF EDIT IF REQUESTED. 1988 CONTINUE THERMO	388	IFEET FOR ICE	FHERMO	300	
C**** INIS CARD CHANGES INE MINIMUM VALUE FOR UNION TO EDIT THE THERMO C PICTURE IS LESS THAN THIS THERMO C VALUE THEN THE PICTURE IS LESS THAN THIS THERMO C VALUET THEN THE PICTURE WILL NOT BE PLOTTED. JOEFAULT MINIMUM-EDI THERMO HAVALLAXI GO TO 12 THERMO C C**** EDIT CAFD. THIS CARD SETS COUNT VALUES FOR EDITING NOTSE SPIRES THERMO C ON TURNS OFF EDIT IF REQUESTED.	The same of the sa	1PKH (\$=10P1 (5)	THERMO	387	
C **** THIS CARD CHANGES THE HIMIMUM VALUE FOR WHICH TO EDIT THE THERD C ***** FILES CARD CHANGES THE HIMIMUM VALUE FOR WHICH TO EDIT THE 196 CONTINUE MINALEX A C ***** EDIT CAFD. THIS CARD SETS COUNT VALUES FOR EDITING NOTSE SPIRES THERNO C OR TURNS OFF EDIT IF REQUESTED.			THERMO	389	
C VALUE; THEN THE PICTURE WILL NOT BE PLOTTED. (OCFAU.) HIVINUN-ED! THERNO 196 CONTINUE HWALTAXI 60 10 12 C **** EDIT CAFD. THIS LARD SETS COUNT VALUES FOR EDITING NOTSE SPIRES THERNO C OR TURNS OFF EDIT IF REQUESTED.	390	* THIS CARD CHANGES THE MINIMUM VALUE FOR WHICH TO EDIT THE PICTURE. IF THE MEXIMUM VALUE IN THE DICTURE TO LESS THAN	THERMO	390	
196 CONTINUE HWALLAXI HWALLAXI 60 10 12 C++++ EDIT CAFD. THIS LARD SETS COUNT VALUES FOR EDITING NOTSE SPIKES THERNO C OR TURNS OFF EDIT IF REQUESTED.		VALUE, THEN THE PICTURE WILL NOT BE PLOTTED. LOFFAULT	-	166	
C**** EDIT CAFD. THIS CARD SETS COUNT VALUES FOR EDITING NOTSE SPIRES THERNO C OR TURNS OFF EDIT IF REQUESTED. 1988 CONTINUE		CONTINUE	THERMO	393	
C OR TURNS OFF EDIT IF REQUESTED.		GO TO 12	THERMO	394	
CONTINUE		0	THERMO	396	
TOUT WOO		1988 CONTINUE	THERMO	966	

808		IP(X1.67.1.0) IEDUP=X1	THERMO	100	
		IF (X2.6T.1.0) IEDCHN=X2	THERMO	402	
		IF (ABS (X41.6T0001) PCT=X4	THERMO	200	
		IBK=K3	THERMO		
405	198	CONTINUE		904	
	1	THIS CARD SPECIFIES AZ, EL OF THIL PIPE AND TRACK POINT. I	ASSUME	104	
		NOT READ TAPE 10)		404	
		ITRK==I ATP=X1	THERMO	410	
610		£1P=x2	THERMO	114	
			THERMO	412	(Del 14 55.17 Fearing)
			THERMO	614	
		60 10 12	INEKNO	-11	
415	0.02	INOVER=10HVER DEG	THERMO	4 16	
		INONOR=10HHOR DEG	THERMO	414	
			THERMO	418	
		IMOMER = ICHWER FI	THERMO	420	
420	201	INUE	THERMO	124	
		IF (ITAPE:NE.2) 60 10 202	THERMO	224	
		60 TO 203	THERMO	454	
	202	Ŧ	THERMO		
455		_	THERMO	926	
	503	IF(IEND.6T.0)60 TC 999	THERMO	428	
		L	THERMO	624	
		IF (NFR. GT.NFRH)GC TO 11	THERMO	4.50	
430		IF(IDEL, EQ. 0) GO TC 2044	THERMO	432	
		00 264 1=1,10ft F(11,1 T.TOFF (1.1), 00, 11,61.TOFFF(2,1)) GO TO 204	THERMO	636	
		T30=ICNT30+1	THERMO	439	
435			THERMO	436	
	*02	CONTINUE	THERMO	638	
		01FF=(12-T1)/100C.	THERMO	439	
		-	THERMO	044	
0 64		1154	THERMO		
		FIND PROPER CONVERSION FACTOR	LACERIO	7	
		IA=19EFOR(3)+1	THERMO	*	
		IG=IBEFOR(w)	THERMO	544	
5++		IC=IBEFOR(5)	THEKMO	944	
		IF(ICLASS.EQ.0)6C TO 2045	THERMO		
			THERMO	6	
	50 45	CONTINUE	THERMO	450	
064			THERMO	452	
and delication of the contract particular to the contract of t		CALL IMMS412, IM2, 1M2, SEC2)	THERMO	453	Commence of Statement of Statem
			THERMO	454	
			THEBMO	1,66	
455		1 ARE (2.14) #10H			

PRODECTIVE C. 1995	5046	CONTINUED OF THE PROPERTY OF THE CONTINUED OF THE CONTINU	THERMO	459	
			THERMO	461	
THE PROPERTY 1994 10 AZIG 11 11 11 11 11 11 11	5002	0	THERMO	462	100
		1	THERMO	*0*	
1999 FORMITIAL 201, 8410 //	***	ICARIGEIH 15+1454045-FD.+11749-16=1#A	THERMO	465	
1996 FORMATICAL 120x,6A10// 171E		IF (NEWPAS.EQ.1) PRINT 1998, ICARIG, TITLE	THERMO	467	
**************************************	1998	Z	THERMO	694	
**C1 C1 C2 C2 C2 NX MAX MAX NG A2 0* ELOP* SX. THERMO **CAT NA ND CAT LN ND CAT LN NA NA NG A2 0* ELOP* SX. THERMO **CAT NA ND CAT LN ND CAT LN NA NA NG A2 0* ELOP* SX. THERMO **CAT NA ND CAT LN ND CAT LN NA NA NG A2 0* ELOP* SX. THERMO **CAT NA ND CAT LN ND CAT LN ND CAT LN NA		. 9x, *PRAME*, 9X, *TIPE TIME F A G C V LT+ LTH*	THERMO	04.0	
1399 1997		C1 C1 C2 C2 C2 HAX HAX HAX AVG AZ OF	THERMO	471	
If		LN WO CNT LN WO CNT LN WO CNT MAX	THERMO	473	
1999 FICHERINI 1999 FICE		L L*,57x,*0ELL	THERMO	25	
THE PROPERTY THE PROPERTY THE PROPERTY THE PROPERTY	25		THERMO	475	
THERNO CONTINUE			THERMO	111	
2059 CONTINUE ACKGROUND LEVEL FOR EDITING 2059 I-IOTILISO 2059 I-IOTILISO 2050 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		IF (.NOT. IPL 30) 6c TO 205	THERMO	470	
2059 ILPICTION LEVEL FOR EDITING 2059 1 ILPICTION OF 2050 1 PICTION	986		THERMO	673	
The property 1		DETERMINE	THERMO	4.61	
The control of the	0340	6503 00	THERMO	304	
THERMO T	6607	1	THERMO	*83	
		00 2060 J=1,100	THERMO	485	
International Continue	584	TETIPICIT, 11, GE, 2001GO TO 2060	THERMO	904	
INOX=IPIC(I,J)/16+1001 THERMO		15(15)(11) 11 11 11 11 11 11 11 11 10 10 10 10 10	9		
THERMO		INOX=IPIC(1, J)/16+10001	THERMO	684	
Continue	064	IPICT(INOX+20) =IPICT(INOX+20) +1	THERMO	491	
NUMBER N	2060		1	264	
SUN=10	,	1	- 1	***	
		ISUM=10	THERMO	564	
IPICT(I+40)=IPICT(I+20) IF(WHYAL_EPECT(I+20) IF(WHYAL_EPECT(I+20) IF(WHYAL_EPECT(I+20) IF(WHYAL_EPECT(I+20) IF(WHYAL_EPECT(I+40) I	433	IF (IPICT (1+20), £0,0)60 TO 2065	THERMO	164	
IFERNO I	The second second	IPICT(I+40)=IPICT(I) /IPICT(I+20)	THERMO	864	
		IF (NUMVAL.GT.IPICT (I+20)) GO TO 2065	THERMO	664	
CONTINUE THERMO	200		THERMO	501	
PECT	5065	1	THERMO	505	
2066 CONTINUE THERMO LEGORTH-MAXCH-19UP.30 THERMO LEGORTH-MAXCH-19UP.30 THERMO LEGORTH-MAXCH-19UP.30 THERMO TELEUP. HE. 0) ECILOUP. HE. 0) ECILOUP. HE. 0) ECILOUP. HE. 0) ECILOUP. HE. 0) ECHLOUP THERMO TH		IPICITIE-1	FHERMO	500	
I	2066		THERMO	505	
HINEOTE SUMMHAXOLIADO 3) If (ICDUP, NE. 0) ECON = ICOUP If (ICDUP, NE. 0) HINEOTE = ICOUP HAKONIEO	505	TADD=PCT+TSUM	THERMO	507	
IF (IEDUP NE.0) IEDCNT=IEDUP IF (IEDOWN NE.0) HINEDI=IEDOWN HARNIT=0 HARNIT=0 HARNIT=0 HARNIT=0 HARNIT=0		HINEDT=15UM+MAX0(1A00+3)	THERMO	200	
HANGITED HANGITED HANGITED HANGITED HANGITED HANGITED HANGITED HANGITED HANGITED		IF (IEDUP. NE. 0) IEDCNT=IEDUP	THERMO	606	
CT STATE	510	If (IEDONN.NE.01HINEDI=IEDONN MAXCNI=0	THERMO	511	
		#XCNT1=0		613	

	,		THERMO		
515		DO 206 Is1,100	THERMO	516	
		TIPHEKOTT-1-11 IZEMING(T+1-100)	THERMO	510	
		00 206 Jr1,100	THERMO	616	
		EDIT NOISE SPIKES IF REQUESTED	THEKNO	026	
0.76		MAXADJ=0	THERMO	522	
		JI=HAXOLJ-I,I	THERMO	626	
		J2=HINU(J+1,100)	IMERAD	176	
525		IF(IPIC(I,J).LT.3*MAXADJ)GO TO 2047	THERMO	526	
		IPIC(I) JPHAXAOJ	THERMO	126	
	2007	CONTRACTOR	THERMO	926	
		IF(IPIC(I,J).LT.(MINEOT+IEDCNT))GO TO 2053	THERMO	530	
530		IF(J)EQ.160160 TO 2048	THERMO	537	
	-	Territory To 2008	THERMO	988	
		IPIC(I,J)=IPIC(I,J+1)	THERMO	534	
676	200.0	60 TO 2093	THERMO	939	
222	0407	TOTAL ME THOUGH TO SOME	THERMO	250	
		IPIC(I, J) = IPIC(I, J-1)	THERMO	536	
	0300	Г	THERMO	939	
940	2502	CONTINUE CITATOLIST STATE COLORS STATE COLOR	HERMO	200	
	2054		THERMO	545	
		NVALUE=IPIC(I, J) TECHNALISE IE ASC TO 206	THERMO	545	
		-	- THERMO	686	
545		IF(ILX.LT.40.0R.ILX.6T.70)G0 TO 2056	THERMO	246	
		IFTI.67.45160 TO 2055	THERMO	547	
		TELEVOLUTE MUSICALIES OF TO THE	LHEKHO	240	
		NXMI=I	THERMO	550	
956		HALIEJETOP	THERMO	166	-
	-	60 TO 2056	THERMO	552	
	66.02	TECHNICATO NATURE IN TO 2046	THERMO	554	
-		TEXES.	THERMO		
555		MXL 2= J+ITOP	THERMO	956	
	95.03	TELL FOLLOR T. EC. 1001GO TO 2057	CHECKO	65.8	
	-	IF INVALUE: 67, 150160 TO 2057	THERMO	666	
		IF (IPIC(I, J) . LE. IFIC (I-1, J) . OR. IPIC(I, J) . LE. IPIC(I+1, J)) GO TO 2057	-	560	
260		I SUM=I SUM+I PIC(I, J)	THERMO	561	
	****	NOCH-NOCH-1	THE KHO	200	
		MAXCHT=HAXO (MAXCNT, NVALUE)	THERMO	200	
		IF (HAXCNT.NE.NVALUE) GO TO 206	THERMO	596	-
505		INXE	THERMO	566	
	206	CONTINUE	THERMO	268	
		LV1=IPVL-I70Pv1	THERMO	696	
			-		

	60 10 207	THERMO	346		
		THERMO	573		
	BALL=TEXE	THERMO	575		
575	HXM2=IPVW2	THERMO	976	-	-
	#XL1=LV1	THERMO	577		
	MXCN11=IPIC(IPVM-LV1)	THERMO	579		
		THERMO	500		-
580 20	207 CCNTINUE	THERMO	581		
	TABLE DETERMINE TO TRUE TO SUMPRISON	THERMO	205	1	
	1000-101-100-100-30	THERMO	286		-
	IF (IBK of . 0) IBKGR=18K	THERMO	505		
585	HINVAL = 4-ISUM	THERMO	506		-
	IT MINATOLE OF THE STANDS	THEBRO	201		
	ISUM1=0	THERMO	806		
	I Sunn=10H3UN =	THERMO	200		
260	IF (MAXCNT.LT.MINVAL) IPC=1H	THERMO	165		
	ALBANITA AND MICHAEL AND STATE OF THE STATE	THERMO	203		
	PRINT POPP NOTE: 121. TELL 181.	FHERMO	500		A P 1000 C
	. (IBEFOR(I), I=2,7), IAFTER(7), MXCNT1, MXL1, MXM1, MXCNT2, MXL2, MXM2,	THERMO	265		
566		FHERMO	286		
2	2000 FCKMAT (I10.4X,213,F7.3,2F8.3,513,215,15,214,15,214,15,314,2F8.3,	THERMO	597		
	ILINE=ILINE+1	THERMO	566		-
	IF (IPR INT.LT.2) 60 TO 240	THERMO	989		-
600	IFCNT=IPCNT+1	THERMO	601		
	IPPR2=IPRL2-ITCP+1	THERMO	603		
	IPPR1=IPRL1-I10Pv1	THERMO	100		-
-	IF (IPPRI-LT.1) IPPF1=1	THERMO	609		
600	OD 230 I=IPPR1.IPFR2	THERMO	607		
	KK=I=1+1100	PHERMO	989		-
	PRINT 2002, KK	THERMO	609		
610	DO 210 JUSTPRM1. IPRM2	THERMO	611		
	×	THERMO	612	-	-
2	210 CONTINUE	THERMO	613		
	1	PHERMO	979		-
615	GO TO 230	THERMO	616		
	215 CONTINUE	THERMO	617		
	PRINT 2001, (IPIC(JJ, I), JJ=IPRNI, IPRN2)	THERMO	618		-
2	2002 FORMATIO LINE = +, 15)	THERMO	619		
620		THERMO	621		
	IF (ILINE, LT. 72160 10 225	THERMO	229	-	-
	ILINE=0	THERMO	623		
23	225 CONTINUE	THERMO	625		
569	SON INC	SUCONO	101		
		DILL WILL	030		

630			-	-
630	TROAT - TROAT	THERMO	630	
	- XPIC	THERMO	631	
	IF(ITRK, LE. 0) GO TC 3005	THERMO	632	
	STORE OF	THERMO	634	
3001	1	THERMO	639	
635	1	THERMO	636	
3669	69 IP (10CMEC (10) 13001, 3509, 5001	THERMO	636	
		THERMO	639	
	IF (TAP10(1).GT.T2)GO TO 3017	THERMO	640	
040	KTP=TAPIQ(13)*ABIAS ETD=TAPIQ(14)*ERTAS	THERMO	642	
	19(ATP. 61. *90.160 TO 3014	THERMO	643	
		THERMO	949	
	-	THERMO	649	
645 3014		INEKHO	040	
	ETRK=TAP10(17)+EBIAS	THERMO		
	IIREI	THERMO	649	
	LIN9=LIN9+1	THERMO	650	
059	CALL IMMS(TAP10(1), IMMCO, IMMCO, SECWOO)	THERMO	652	
	TOTAL TOTAL	THERMO	868	
		THERMO	. 159	
2006	-	THERMO	560	
655	. *OEP ANGLE=*, F6.2, * DEG*)	THERMO	020	
3005	IFISK-LI-LU-UF OU TO SULS	THERMO	656	
	1	THERMO	660	
	RESLFT=SR*SIN(RESLIN*.017453293)	THERMO	099	
3006	KESHI I SSK SIN I KESHU • ULI 43 624 51	THERMO	299	
	-	THERMO	663	
1	INTP=ATP/RESMO+INCENT+SIGN(.5,ATP)	THERMO	199	
909	IFITABS(ITRK). NE. 2) GO TO 3003	THERMO	999	
3015		THERMO	199	
	IF(ITRK.LT.0)60 TO 3017	THERMO	999	
	######################################	THERMO	. 670	
30.5	CONTINUE	PHERMO	148	-
	LEVEL = . 25* (MAXCNT-ISUM) +ISUM	THERMO	672	
	ILMXFP=IMXL-ITOP	THERMO	673	
	IMMXTP=IMXW	THEKAG	674	-
675	IF(IPIC(IMMXTP,ILMXTP),LT,LEVEL)GO TO 3004	THERMO	676	
	I*#X19=I*#X19-1	PHERMO		
		THEND	670	-
2005	60 TO 3003	THERMO	680	
9000 3004	T	THERMO	199	
	ILTP=ILMXTP	INEKNO	799	
	A TO- CINTO-TACENT - DE CALO	2000	200	

685	40	THERMO	686	
2003	CONTINUE RADIP=-9,99999	THERMO	689	
069		THERMO	069	
	JEN0=100	THERMO	760	
	IF (SR.LT.10.) LABEL1(2.3) = 10HNOT AVAIL.	THERMO	693	
	DC 3620 1+3.6	THERMO	695	
569	LABEL1(1,1)=10H	THERMO	969	and the same of the same of
	LABEL1 (2,1)=10H	THERMO	269	
30 20	CONTINUE	THERMO	969	
		THERMO	700	
200		THERMO	701	
	IF LIFIND. EQ. 0160 TO 3042	THERMO	702	
	ILTPM2=ILTP-2	THERMO	703	
	14 17 17 17 17 17 17 17 17 17 17 17 17 17	THERMO	205	
705	IFEEL TP. 67. 981 Tt 1992=11 TP	1 THE WAY	200	
	NLEFT = IMTP+DLEFT/RESHFT	THERMO	707	
And the second second second second	IXCEL=MAXO(ML EPT, 1)	THERMO	708	
	IXCEL 2= IXCEL+24	THERMO	502	
		THERMO	-	
110	TRINI 90/0+IXCEL-IXCELC.ILIPPE, ILIPPE, IBKGR, IPK	THERMO	711	
	ICNT=0	THERMO	713	
-	NFRHT X=1	THERMO	714	-
	IF(IXCEL2.6T.100)60 TO 3042	THERMO	715	
	00 3040 tatwork . 190612	THERMO	21.7	
	1400 and	THERMO	718	
	IF(J.LT.IMTP)GC TC 3039	THERMO	612	
	1	THERMO	720	
127	IFILPICIA, MARI . GT. IBKGRIGG TO 3039	THERMO	721	
	ICNT=ICNT+1	THERMO	723	
A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	IF (ICNT, 6E, 5) JEND® J	THERMO	724	
	•	THERMO	725	
9876	FORMATIES AND THE PARTY SENDE LONG SENDE LONG SENDER SENDE	THERMO	924	
	Ť	- CHARACTER OF THE COLUMN TO T	-	
	60 70 3040	THERMO	729	
96.96		THERMO	730	-
730	2	THERMO	731	
200	IXCEL * IXCEL 2+1	THERMO	757	
	1x6518-1x651+66	THERMS		
304,1		THERMO	735	
135	TELIEVE CT C AND 111 17 3 LEGOLITO LEGO	THERMO	736	
	16 11 10 11 1 1 10 11 10 11 10 10 10 10 10	THERMO	739	
	IF(INTP.LT.1.0R.1MTP.GT.100) GO TO 3007	THERMO	739	
	RADID-IDIG ([WID-II ID)-GONVE	THEDNO	24.0	
		a want	-	

	1F13K:17:10:8760 TO 3000 ATRK=ATP+TAP10(23)	THERMO	755
	E18K=E1P+14P10 (24)	THERMO	0
245	XTRK=SR*ATAN(TAP10(23) *. 017453292)	THERMO	32
	YTRK=SR*ATANITAPICIZAJ*, 017453292)	THERMO	181
	ROWNOKE APIG (23) / KE SHOPSIGN (39+1 APIG (23))	THEKNO	748
	ILTER-ILTP-MOVER	THERMO	750
750	INTRK=INTP+NOVNOR	THERMO	161
		THERMO	752
	SOUG CONTINUE TITRE-FIRKARS IN TICENT-TIOD CITCH SFIRK	THERMO	755
	INTRA-ATRK/RESHD-INCENT-SIGN(-5-ATRK)	THERMO	66.
755	3000 CONTINUE	THERMO	756
	TEATTER 1 4 DD 1 TDW CT 4001CD TO 2000	THERMO	191
	TECHNICAL TOTAL TETRICAL CONTROL OF SAGE	THERM	130
	RADTRK=IPIC(INTRK, ILTRK) *CONVF	THERMO	760
180	3009 CONTINUE	THERMO	797
	AZAG=AZMAX	THERMO	762
	CLRG-ELTRAX DADAG-TOTO-TEXT-TEXT-TEXT-TEXT-TEXT-TEXT-TEXT	THERMO	763
The same of the sa		CHARLE STATE STATE STATE STATES	***
765	. *,15x, *TRACK POINT*,12x, *MAX AGA POINT*/	THERMO	766
-	. 6x; MGM*, 6x; *VCO*, 9X; *BR ANG RANGE*, 51* AZIN ELE	IR THERMO	187
	a.	THERMO	768
	30 11 FURRALLIA, IZ. 13, FS. 1941 30 FS. 104 FF 6. U. 312 F6. C. 195 511	THERMO	720
170		THERMO	
	C**** FLOT MATRIX CONTAINING TRACK POINT IF REQUESTED.	THERMO	772
	I SUMPLE TO SOLVE TO	THERMO	775
	NCEFIE IN PROLET IVES ONF	INEKHO	3//
. 511	NRIGHT=IHTP+DRIGHI/RESMFT	THERMO	776
The supplemental is the supplemental to the su	NABOVE=(DABOVE/(DABOVE-DBELON))*30.	THERMO	144
	IPMTX=0	THERMO	778
	ISBITE = NL FFT+NFRMIX#27=2	THERMO	240
780	I BOVE = ILTP=WABOVE	THERMO	181
	IBELOW=IBOVE+29	THERMO	7.62
	IFIINTX.Eq.0160 TO 4016	THERMO	783
	IMXCT=IMXCT+1	THERMO	784
785	PRINCELLANCIA PRINCE TO	THERMO	746
	IF (RBDIFF. LT. RBCELL) 60 TO +016	THERMO	787
	IF (IPC.NE.1H*)6C TO 4016	THERMO	788
The second of the second	IF(47P.LT10.0)6C TO 3046	THERMO	789
	RBSAV=RB	THERMO	790
061	IF (IPRHTX, E4. 0) 6C TO 3012	THERMO	164
and the same of th	TPK=44444	THERMO	792
	CALL PRIMIX	THERMO	795
and the second of the second of the second	Tak X = X	THERMO	795
795	60 10 4016	THERMO	796
	3012 CONFINUE	THERMO	161
			1

	CALL BIGY	THERMO	909
800	IXLEFT=74	THERMO	801
	2965-3011	THERMO	200
	1,801=62	HEKHO	9003
	CALL FRANE (3)	THERMO	805
500	CALL CLASSIII	THERMO	906
	XX=I BKGR*CONVF	THERMO	907
	CALL PRINTVI-32,32HNUTE-SLASHED CELLS ARE LESS THAN ,28,201	THERMO	909
	CALL AFRNTV(0,-15,10, IMOVER, 4,587)	THERMO	600
614	TECCONS NE 4 01	THERMO	611
240	11 CONT. 1 CON	- Lineari	110
	LABLV(XX,284,20,-5,1,5)	THERMO	913
the same of the sa	XX=IH14100.+IH1	THERMO	914
	CALL PRINTV(-5,5HIME= ,700,20)	THERMO	815
815	CALL LABLVIXX, 75f, 20,4,1,41	THERMO	916
	CALL LABLY (SEC1,782,20,6,1,2)	THERMO	617
	CALL LINEVITAL EFFICIAL EFFICIAL OF	THERMO	910
	LABEL LEFT SIDE OF MATRIX	THERMO	919
0.5	TOTA VENEZULE	THERMO	129
200	***************************************	THE PART	130
	1A=20 AD 2050 T=1.20	THERMO	270
	100 1-11-00 Oct.	THERMO	955
	ICELY=1CELY=1	THERMO	825
625	CALL LABLV(XX,IX,IX-15,5,1,2)	THERMO	956
	Ir=Ir-30	THERMO	827
3050	CONTINCE	THERMO	828
3060	CONTINUE	THERMO	629
410	LAZZYCT TAZZYCT TAZZY TA	THERMO	934
3061	1	THERMO	632
	-	THERMO	833
The second secon	00 3090 I=N,27	THERMO	634
	IF(ICELLX.GT.NRIGHT)GO TO 4000	THERMO	835
629	21-40141-41	DHALL	929
3		FUEDRO	250
	DO 3065 J=1,30	THERMO	620
	IF(ITPT.EQ. 0) 60 TO 3063	THERMO	940
940	IF (ITPT. Eg. 1. AND. TAP10(24) .LT 99.0) GO TO 3063	THERMO	841
****	CHECK IF CELL 13 TRACK POINT	PHERMO	340
		THERMO	643
		THERMO	
	CALL FULNIVILATION TITO C. TOTAL	THERMO	845
040		THERMO	
	CALL FULNIVILATION (1749-6-100M)	LEERING	100
		THERMO	849
		THERMO	950
020		THERMO	851
	CALL POINTV(IX+37, IY+3,6, IDUM)	THERMO	956
		THERMO	653
The same of the sa	i		
	AMOUNT TO A THE PARTY OF THE PA	THEKING	200

		CALL POINTVIX+37,17+7,6,100H)	THERMO		
	3063	CONTINUE	THERMO		
		IFITCELLY.LT.1.0R.1CELLY.61.100'60 TO 3868 IFITCELLY.LT.1.0R.1CELLY.67.100'60 TO 3868	THERMO		
980		IPX=IPIC(ICELLX, ICELLY)	THERMO		
		AX=1PX+CONVF	THERMO	500	
		DY-XI-XXI	THERMO		
865		CALL LINEV(IX,IY-10,IXX ,IY+12)	THERMO		
	-	IFIIPX.6E.0160 TC 3066 CALL LINEVIX.IV-16.IX.IV+12)	THERMO		
	20.64	90 10 3088	THERMO	670	
970	5	ISONZ-17SURZ-1PX TETTOR GE 10517CHM=10HCHM GT	THERMO		
		TE-ALOGIO(XX)	THERMO		
		NL=1	INEXHO		
675		IFIE: III TO TO SUGG	THERMO		
		NL=4 GC TO 3067	THERMO		
	3066	CONTINUE	THERMO		
		IEE=IABS(IE)	THERMO	980	
200		X=XX=XX+10.**(IEE+1)	THERMO		
	3067	CONTINUE	THERMO		
		Car potations and a constant	THERMO		
885		GO TO 3068	THERMO		
	201	CONTINUE	THERMO	888	
		CALL LABLVIXX, IXVE, IV. 4, 1, ML)	THERMO		
		CALL PRINTV(-1,1FE, IX+6, IY-12)	THERMO	069	
068	30 . 6	CONTINUE CONTINUE	THERMO		
	-	11414-30	THERMO		
and the same of the same of the same of	30.64	ICELLY=1CELLY+1	THERMO	568	
695	2002	ICELLX=ICELLX+1	THERMO		
		IF11x.NE.1160 TO 3088	THERMO	169	
		1 X=1 X+39	THERMO		
	30 66	CONTINUE	THERMO	006 0	
900		IX=IX+38	THERMO		
		IF (I.Eq. 27) IX=1023	THERMO		
		XX=(ICELLX-INTP)*RESMFT	THERMO		
200		IF (HODG) 1403 (10ELLX - INTP), 2), NE. 0160 10 3090	THERMO		
405		IT LENE STATE TO SUBS	THERMO		
		GO TO 3090	THERMO		
The same and the same of the s	30 89	CALL LABLV(XX.IX-10.IYB07-12.6.1.3)	THERMO		
-	-	CONTINUE	PHERMO		
210	30 30	CONTINC			

THE PROPERTY THE PROPETTY THE PROPERTY THE PROPERTY THE PROPETTY THE	A 100	OU 4010 I=1,31 CALL LINEV(IXLEFI,IY,IX,IY)	THERMO	916	
IFTICELLX.05.WRIGHTOO TO 4023 THERMO	915 4010	-	THERMO	916	
		IFICELLX.GT.NRIGHT160 TO 4015	THERMO	916	
THERMO THEFT THE PRINT		TP (IP RHTX.GE. WPRMTX) GO TO 4019	THERMO	-	
CALL FRANCO CALL LINE (10 + 10 + 10 + 10 + 10 + 10 + 10 + 10	0.76	IFRMIX=IFRMIX+1	THERMO	126	
THE REPORT THE REPORT THE REPORT		IALEFI=2 CALL FRAMEV(3)	THERMO	923	
If the transmission of t		CALL LINEVISE, ITBOT, 36, 1710P1	THERMO	126	 1
THE PROPERTY THE PROPERTY THE PROPERTY THE PROPERTY			THERMO	925	
######################################	626	IF (MOD (IABS (ICELIX+1-IMTP),2).WE.0)60 TO 4011	THERMO	927	
10.000 1		XX=(ICELLX+1-IMTP)+RESMFT	THERMO	936	
CONTINUE	4464		THERMO	626	
THE READ			THERMO	931	
0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 3061 0.00 10 10 10 10 10 10 10 10 10 10 10 10 1	1104		THERMO	366	
3045 GO TO 3061 3046 GOTTRUE ACRITUCE ACRTINUE ACRTINUE ACRTINUE ACRTINUE CALL PRINTY(10,15UH+666,966) CALL PRINTY(10,15UH+666,966) CALL PRINTY(10,15UH+666,966) ACRTINUE ACRTINUE ACRTINUE ACRTINUE ACRTINUE ACRTINUE ACRTINUE ACRTINUE ACRTINUE CALL ABLYXSUHAFERRAD(11,0T,12F00 TO 4115) FIFERO ACRTINUE ACRTINUE CALL ABLYXSUHAFERRAD(15,0T,12F0) FIFERO ACRTINUE CONTINUE CO	the second of the second of	WELL CLASSILI	THERMO	933	
30+6 CONTINUE 410-6 CONTINUE 410-6 CONTINUE 410-6 CONTINUE 410-6 CONTINUE 51-6 CONTINUE 51-6 CONTINUE 51-6 CONTINUE 51-6 CONTINUE 51-7 CONTINUE 51		3	THERMO	935	
3046 CONTINUE 4105 CONTINUE 4105 CONTINUE 4105 CONTINUE ASSURT SCHOOL OF 4115 FRESHO CALL PRINTVIO.ISUNH.668.9661 CALL LABLY (10.1SUNH.668.9661) If ISR.LT.10.0160 TO 4115 ASSUNH.8ESSAGE TO A TO 4115 ASSUNH.8ESSAGE TO A TO 4116 CALL LABLY WISHINGE TO 4016 ASSUNH.8ESSAGE TO A TO 4116 CALL LABLY FEER TO TO 401 IF ILLINE.GT.72)ILINE OF TO 401 IF ILLINE.GT.72)ILINE OF TO 401 IF ILLINE.GT.72)ILINE OF TO 401 IF ILLINE OF TO 401 IF ILLINE OF TO 401 IF IRROD CONTINUE CONT		=	THERMO	936	-
######################################	3046		- CHARLES	200	
### ### ##############################			THERMO	939	
	8		THERMO	941	1
THERMO		IF(ISUM2.EQ.0)60 TO 4115	THERMO	346	
CALL PRINTVIO.ISUHH.668.966) CALL TAULY (XSUM1748.966.966) IF(IISUM-64.0)6(I TO 415) IF(ISUM-64.0)6(I TO 416) IF(ISUM-64.0)6(I TO 416.0) IF(ISUM-64.0)6(I TO 416.0) IF(ISUM-64.0)6(I TO 416.0) IF(ISUM-64.0)6(I TO 416.0)6(I TO 416.		ASUM=ISUM2*CONVF	THERMO	545	
CALL TABLY (X3UM.7*48.966.571.5) IF(I.SUM.64.0)6(T 0 415) IF(I.SUM.64.0)6(T 0 415) IF(I.SUM.64.0)6(T 0 415) IF(I.SUM.64.0)6(T 0 415) CALL FAILVY (**1.11.0)8.141.01.171.01.01.171.0		CALL PRINTV(10,15UMM,668,966)	THERMO	546	
	\$4¢	CALL LABLY (XSUM,748,966,-5,1,5)	THERMO	220	1
FF(SR.LT.10.0)GO TO 4115		TETTAPLO(1) . T.T.: OR.TAPLO(1) . GT. 729 GO TO 4119	THERMO		1
CALL LASLVIKSURJECE, 966,61,67 CALL SHALLY CONTINUE CONTINUE IFILINE, GT. 72 ILLNE=0 CATTANUE IFILINE, GT. 72 ILLNE=0 CATTANUE IFILINE, GT. 72 ILLNE=0 IFILINE, GT. 72 ILLNE=0 CATTANUE IFILINE, GT. 72 ILLNE=0 IFILINE IFILINE IFILINE IFILINE IFILINE IFILINE IFILINE IFILINE IFILINE I		IF(SR.LT.10.0)60 TO 4115	THERMO	676.	
CALL LABLVIXSUMJIGE 1966 16,1161 CALL SHALLY 4016 CCNTINUE CONTINUE CONTINUE CONTINUE IFILINIC GT, 72) ILINE=0 IFIL	950	*	THERMO	951	
### CONTINUE ###################################			THERMO	956	-
4016 CGNIINUE 250 CONTINUE 1FILINE.GI.72)ILINE=0 1FILINE.GI.72 ILINE 1FILINE.GI.72 ILINE 1FILINE.GI.72 ILINE 1FILINE.GI.72 ILINE 1FILINE 1FILIN			THERMO	953	
	4016		THERMO	955	
Figure F	656	1	THERMO	957	
	0	1	THERMO	956	
ICHTSS=[CNTSD] ICHTSS=[CNTSD] IF(HODITCHT3D-1FPL3D-1FPL3D-1FFR) Control 3-D 1MAGE OF PICTURE FERMO FERMO FERMO IF(IPLO7.E3.2) WIOF=MAXCMT+100-MOD(MAXCMT,100) IPASS-1.		15 (1PL01 - E4.0) 60 10 400	THERMO	959	
C**** PLOT 3-D 1MAGE OF PICTURE C**** PLOT 3-D 1MAGE OF PICTURE C**** IF MAXIMUM COUNT IS LESS THAN EDIT COUNT (MINVAL), DO NOT PLOT. THERMO IF(MAKGHT.LT.MINVAL)60 TO 300 IF(MAKGHT.LT.MINVAL)60 TO 300 IF(IPLOT.E3.2)WIOF=MAXCMT+100-MOD(MAXCMT,100) IPASS-1.	46.0	ICNT30=ICNT30+1	THERMO	961	
C**** IF MAXIMUM COUNT IS LESS THAN EDIT COUNT (MINVAL), DO NOT PLOT. THERMO FERMO IF (IPLOT EQ.2) WIOF = HAXCHT+1100 - HOD (MAXCHT+1100) THERMO IF (IPLOT EQ.2) WIOF = HAXCHT+1100 - HOD (MAXCHT+1100) THERMO INCRESS - 1.		1	-	396	
C**** IF MAXIMUM COUNT IS LESS THAN EDIT COUNT (MINVAL), DO NOT PLOT. THERMO IF (HAKGNT, LT. HINVAL) 60 10 300 IF (IFLOT. E0,2) WTOF = MAXCNT+100 - MOD (MAXCNT, 100) IPASS - 1		1	THERMO	964	
IFITELOT.E3.2) WIOF = HAXCNT+100 - HOD (HAXCNT,100) IPASS-1.			THERMO	962	
	ĝ	IF (IPLOT. EQ.2) WIOF = HAXCNT+100-HOD (MAXCNT+100)	THERMO	967	
בעוו פו בעוו			CHOST		

INTERNATIONAL INTERNATIONA	0.06	IAL=IMIIOI)	THERMO	972	
Time		IVZ=IMIZ,Z)	THERMO	973	
		IOELY=(IY2-IY1)/10	THERMO	974	
THE PROPERTY OF THE PROPERTY	97.5	MITHIOP CONVE	THERMO	976	
		OELX##7,10.	THERMO	146	
		IX=IX1-32	THERMO	976	
		TATAL MCSA	THERMO	940	
NEW		L ABVER*10MCOUNTS	THERMO	106	
NEW		NL=4	THERMO	982	
		NC2 OI DOLOTING IN TELEVISION	THERMO	986	
THERMO T		LABVER-10HM/ ICH2*SR)	THERMO	686	
1551 1751 1751 1751 1751 1751 1751 1752	985	T-7x	THERMO	986	
THERMO CALL LABLY XXX 1Xx 1Y + MC. 1, ML)	25	3	THERMO	986	
DO 255 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6 1-11 1-6		1	THERMO	686	
CALL LABLVIXX, INC. 1, N.C. 1, N.C. CALL LABLVIXX, INC. 1, N.C. 1, N.C. EXECUTIVE CALL CLASS(1) CALL PRINTV(20, LABEL(11,2), 20, 932) CALL PRINTV(20, LABEL(11,1), 20, IY) CALL PRINTV(20, LA		00 255 I=1,11	THERMO	066	
THERMO	200	CALL LARIV(XX.IX.IV.NC.1.NL)	THERMO	992	
THERMO		IV=IV+I0ELY	THERMO	566	
Continue			THERMO	166	
THE CALE THE CALE THE CALE THE CALE CALE CLASSIA THE CALE T		CONTIN	THERMO	966	
CALL CLASSITIONING CALL CLASSITIONING CALL CLASSIS XINA=IN=100*IN* XINA=IN=100*IN* XINA=IN=100*IN* XINA=IN=100*IN* CALL LABLAYXINA; CALL PRINTY(20,LASEL1(1,2),20,932) CALL PRINTY(20,LASEL1(1,2),20,932) IY-10 IY-10 CALL PRINTY(20,LASEL1(1,1),20,IY) IY-10 CONTINUE CONTINUE CALL PRINTY(20,LASEL(1,1),20,IY) IY-10 CONTINUE CALL PRINTY(20,LASEL(1,1),20,IY) IY-10 IY-10 CALL PRINTY(20,IX IY-10 IY		-	THERMO	166	
CALL CLASS(1)		S	THERMO	966	
NEW	5	S	THERMO	1000	
ATIMETAL TATALLY STATES	0.001	XTINI-INI-100+INI	THERMO	100	
CALL PRINTY(20.46EL1(1,2).20.932) CALL INBUTY(20.46EL1(1,2).20.932) ITHTRA.E. 9190 10 296 IY 9144 IV 9244 IV 9251 1=3.9 CONTINUE			THERMO	7007	-
CALL FRINTY(-23,2917HE F A G C V ,20,962) THERMO IY=30,217HE F A G C V ,20,962) THERMO IY=30,217HE F A G C V ,20,962) THERMO IY=30,4 THERMO CALL PRINTY(20,126111,1),20,17) THERMO CALL PRINTY(20,126111,1),20,17) THERMO CALL FRINTY(20,126111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,126111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,12611111,1),20,17) THERMO CALL FRINTY(20,12611111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,1261111,1),20,17) THERMO CALL FRINTY(20,12611111,1),20,17) THERMO CALL FRINTY(20,1261111111111111111111111111111111111		CALL PRINTY(20, LABEL1(1,2),20,932)	THERMO	100,	
	5001	PRINTY(-23,23HIME F A G C V	THERMO	1006	
IY=314		IFIITRK.LE.0160 TO 296	THERMO	1007	
CALL PRINTVICO.LFBEL1(1.1).20.IT) 2551 CONTINUE 2552 CONTINUE 2554 CONTINUE 2555 CONTINUE 2556 CONTINUE 256 CONTINUE 256 CONTINUE 257		IY=914	THERMO	1008	
2551 CONTINUE 256 CONTINUE 17-860 1			THERMO	1010	
2551 CONTINUE 256 CONTINUE CALL FRINV(20.LABEL(1,1).20.IV) THERMO CALL FRINV(120.LABEL(1,1).20.IV) THERMO CALL FRINV(120.LABEL(1,1).20.IV) THERMO CALL FRINV(120.LABEL(1,1).20.IV) THERMO CALL FRINV(120.LABEL(1,1).20.IV) THERMO		I sal	THERMO	11011	
	. 52		THERMO	1012	
DO 256 1=1.25 CALL FRINTVIZO.LABEL(1.1).20.IY) ITHERNO CONTINUE CALL PRINTVIZO.LABEL(1.1).20.IY) ISUMIAO ISUMIAO ISUMIAO IFILIANO			THERMO	1014	
258 CONTINUE CALL PRINTILIONINE ISUNTA 1		00 256 1=1+25	THERMO	5101	
256 GONTINUE CALL PRINTVISOTISUMM.E0.IT) ISUMM.=0 00-3010	1012	TATIVITA	THEORD	1010	
	52	CONTI	THERMO	8101	
16 11.17.15LEFT.OR.1.6T.15RITE.1GO TO 3018 16 11.17.15LEFT.OR.1.6T.15RITE.1GO TO 3018 17 11.17.15.17.150.1.6T.150.150.150.150.150.150.150.150.150.150			THERMO	1020	
IF(I.LT.ISLEFT.OR.I.GT.ISRITE.IGO TO 3018 10-3816 Jatiato IF(J.LT.IBOVE.CR.J.GT.IBELOWIGO TO 3016 IF(J.LT.IBOVE.CR.J.GT.IBVSRLISWIR-130MI-120	1920	- 4-	THERMO	1961	
16 0(1)		IF(I.LT.ISLEFT.OR.I.GT.ISRITE)GO TO 3018	THERMO	1022	
CHEAD	A control of the cont	16 3016 3=1:100 IF(J.LT.180VE.CR.J.GT.18ELOW)GO TO 3016	THERMO	1924	-
			-		The second secon

FILTH FILT	THERMO	THERMO 1928
25		
25 25 25 25 25 25 25 25 25 25 25 25 25 2	THERMO	1031
	THERMO	
25 68 CONTINUE CALL PRINTVI-14:11H	THERMO	
25 88 CONTINUE CALL PRINTUTISTATH = WYSR CALL LAGLVIXSUN.100.1V.=5.1.51 IX=130 CALL LAGLVIXSUN.100.1V.=5.1.51 IX=130 CALL LAGLVIXSUN.100.1V.11 IX=IX.16 CALL LAGLVIXSI UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS UXSAY-UAXIS IX-IX-UXSAY CALL LAGL IX-IX-UXSAY IX-IX-UXSAY IX-IX-IX-IX-IX-IX-IX-IX-IX-IX-IX-IX-IX-I	THERMO	
25 8 8 2 2 5 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THERMO	
261 22 142 142 143 144 144 145 145 145 145 145 145 145 145	THERMO	
261 26 162 163 163 163 163 163 163 163 163 163 163	THERMO	1036
26 1 2 2 1 2	THERMO	1
26 24 24 24 24 24 24 24 24 24 24 24 24 24	THERMO	
261 20 11 20 11 11 11 11 11 11 11 11 11 11 11 11 11	THERMO	
261 261 141 261 141 141 141 141 141 141 141 141 141 1	THERMO	1043
261 26 11 26	THERMO	
261 262 145 145 145 145 145 145 145 145 145 145	THERMO	1
26 11 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	THERMO	
2612 CG LE LE RE LE CO LE	THERMO	
261 261 261 261 261 261 261 261 261 261	THERMO	=
261 261 261 261 261 261 261 261 261 261	THERMO	1830
26 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	INERNO	
1704=11P	THERMO	
IION IION IION	THERMO	
RESHERESNET 251604V=-1 1551604V=-1 14647=1404CR 1406=14040R 2611 CONTINUE 1774-147F 1774-147F 1774-147F 1774-147F 1774-147F 1776-147F 1776-147	THERMO	
	THERMO	1057
ISIGNH=1 INGE INDUCE Z611 CONTINUE IFFW=INTP IFFW=INTP IFFW=INTP IFFW=INTP ISIGNH=1 ISIG	THERMO	1
2611 CONTINUE 2611 CONTINUE 170-1100 170-11	THERMO	1059
26.11 GONTONUE	THERMO	
2611 CONTINUE IPPW-INTP IP	THERMO	1962
	THERMO	
RESUFESHET ISSENME ISSENME ISSENME INGRIHOUS INGRIHOUS RAINIOUS ANDRID A	THERMO	
RESHERESLFT ISSENWEL ISSENWEL ISSENWEL ISSENWE INGREHOVER E612 CONTINUE XLINIII 11 YLEVICE 11 YELVICE 21 ZELUIS 21 Z	THERMO	1866
SIGNN=1 ISIGNN=1	THERMO	
STATE THOUSE PAGE THOUSE	THERMO	1
E612 CONTINUE RAINETPV ADD=11PV ADD=10 X1=1V(1,1) X2=1V(1,2) Y2=1V(2,2) Y2=1V(2,2) Y2=1V(2,2) Y2=1V(1,2) Y2=1V(1,2) Y2=1V(1,2) Y2=1V(1,2) Y2=1V(1,2) Y2=1V(1,2)	THERMO	1069
2612 CONTINUE ALCHEITPV ACCIOLO ALCHEITPV ACCIOLO ALCHOIT ALCHOIT ACCIOLO ACCION ACCIO	THERMO	
XLIM=ITPV ADD=10. X1=IV(10.1) X2=IV(10.1) X2=IV(10.1) Y2=IV(20.1)	FHERMO	
ANDERSON ALEIGIA ALEIGIA ALEIGIA ALEIGIA ALEIGIA ALEIGIA ALEIGIA ALEIGIA FALINA FALI	THERMO	
### 1	115010	1076
X2=10(1.2) Y2=10(1.2) 26.1 CONTENUE FFALIN-6F-100 IF(ALIN-LT-1.1)X	- CHERRO	
261 CONTINUE FORLINGET-100 FORLINGET-101	THERMO	
FFALIN-GF.100 IFIXLIN-LT-1.)	115040	1070
IF (XLIN-LT.1.) X	THERMS	
	THERMO	-
AMARIA STATE	- THERE	-

CALL LABLVIXX.IX10.17 '4'.2) KINEXINATURE CALL ARGUNIXITAL KINETINICIANO 10 263 ROD-15 KINETINICIANO 10 263 ROD-16 KINETINICIANO 10 263 ROD-16 KINETINICIANO 10 263 CONTINUE CALL PRINTAL CALL PRINTAL CALL PRINTAL CALL RABLVIXITAL CALL PRINTAL CONTINUE CO		
	THE STORY OF THE S	

1169		SHIFT (IPICT (J+2), 24), 0K.		HERMO	1143		
	•	J= J+5		THERMO	1165		
	420	CONTINUE		THERMO	1146		-
		WRITE(12) 18EFOR, 1#FTER, IMPT, (1PICTIN), K=1,2000)		OL WAR	1188		1
		60 TO 200		HERMO	1149		
115.0	5	IPICT(10001)=T1/100.	-	THERMO	1151		
		1PICT(10002) = SR IPICT(10003) = R8	==	THERMO	1153		
		IPICT (10004) = CONVP-10.E10	-	PHERMO	1611		
		IPIC1(10(05) = IF		THERMO	1155		
1113		IPICT(10007)=18		THERMO	1157		
		IPICT (10008) = IWTP	F	FHERMO	1150		1
		IPIC1(10009)=ILTP		THERMO	1159		
1160		1=10011		HEDMO	1161		1
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		00 429 K=1,2	=	THERMO	1163		
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		WRITE (12) (IPICT(LL), LL=J,L)		HERMO	1173		
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BUFFER LENGTH	1634/8		,			
CH BLANK COMMON LENGTH						
SUBROUTINE IHMS	74/74 OPT=1 TRACE	FTN 4.2+74355	09/29/76	12.58.27.	PAGE	-
HI	IN=TMS/3.6E6		HAY75	u m		
SEC			HAY75 HAY75	• 50		
S RETI	RETURN		MAY75			
ENO			MAY75			
		,				
SUBROUTINE IHMS	74/74 OPT=1 TRACE	FTN 4.2+74355	09/29/76	12.58.27.	PAGE	~
SYMBOLIC REFERENCE	HAP (RE1)					
ENTRY POINTS 3 IMMS						
VARIABLES SN TYPE						
0 SEC REAL	F.F. 0 THS	INTEGER	. e. e			
STATISTICS						
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10	SUBROUTINE REPRIN	HAVE	
	DIMENSION X(8)	HAY75	•
4 3	1=0	44775	
5	READIG 5000 X	84778	::
1	I=I+1	HAY75	12
04 006		HAVES	**
J	IF(EOF(4).NE. 0.0) GO TO 2	HAY75	15
	WKITE 15:0017 X	HATTS	91
10	1 01 1	HAY75	17
11 2	I-I-III	HEVES	
00	10 J=1+IM1	HAV75	19
a co	DACKSTACE 4	CALLE TO THE PARTY OF THE PARTY	82
22 01	CONTINGE	HAVES	21
004	SOCIAL CONTRACTOR DECIMATING OF TABLE DATA BALL	44.75	22
0.000	=	CITAL	63
602 FO	602 FORMATI END OF INFUT DATA *//)	MAY75	25
END	O. C.	HATTS	22
STHBOLIS REFERENCE H	HAP (R=1)		
ENTRY POINTS 1 REPRNT			
VARIABLES SN TYPE	RELOCATION		
J INTEGER	70 INI INTEGER	ARRAY	
FILE NAMES MODE			The street of the second of th
TAPE . FHT	TAPES		
CAICKING S	AKGS		
EUF	1		
STATEMENT LABELS			
500 EM1	-	11 11	
144	53 600 FMT		

	25	JOROUTINE ROHODE (11)	KONODE (17, IN, NCHAK, 1000E, 103)	DE, ICSI		RATE			
	10	MENSION IN(256)				MAY75	58		
	200	UPFER INITAL INITALIATIONS	119621NI.			44.75			
	-	STOTIS (ILT) ITHOU	neurae muni			***************************************			1
, ,		CODE=1 INDICATES PARITY ERROR	RITY ERROR			MAY75	35		
ی د		CODE=4 INDICATESA PARITY ERROR CODE=2 INDICATESASHORI REGORD	DRI RECORD	1 1 10	LONG RECOVE	MAY75			
3	-	CODE-585 INDICATES A ZERO LENGTH RECORD	A ZERO LENGT	RECORD	1	HAVES	39		
70 01	1	CODE=999 INDICATES AN EOF MAS ENCOUNTERED	AN EOF MAS EI	MCOUNTERE!	D ON IT	HAY75	2		
	3 10	CS=LENGTH(IT)				HAY75	30		
	2	CS=1CS*10				all das	-;		
	-	F(ICS.EQ.0) ICODE=888	99			MATT			
·	11	FILES.LI.NCHAR) ICODE=2	06=2			KAV75	::		
	*	ETURN				24775	2:7		
	2 10	CODE=1							
20	12	CS=1CS*10				SEPTIZ	~		
	1	FILES. 6T . NCHAR! ICODE =5	5=30			*****	*		
	1	F (FCS. Eq. 0) ICOUE = 866	99		The second secon	2448	35		
	10 IC	666=3000				HAY75	*		
62	2:	CS=LENGTH(17)				SEDTIS	-		
	1	103=103-10				2000			
	END.	0				HAY75	213		
SUBROUTINE ROMCDE	ROMCOE	74/74 OPT=1	TRACE		FTN 4.2+74355	09/29/76	12.58.31.	PAGE	~
STHBOLES REFEREND		HAP (R=1)							
ENTRY POINTS 3 ROHODE									
N.S	TYPE	RELOCATION							
0 IN I	INTEGER INTEGER INTEGER	ARRAY F.F.	00	11 11 11 11 11 11 11 11 11 11 11 11 11	INTEGER				
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	. RESETT : RESMT : LABEL (C. 22) : LABELI (C. 27 : XSUM: RESKAD: SK IMTRK, ILTRK, XTRK, YTRK, ITPT	THEPMO	1162
	., IPKMTX, ISUMM OIHENSION IBLANK(26)	THERMO	1184
	COMMON IBEFOR! 71, TAFTER! 71, 110P, 1PIC(100, 101)	THERMO	1188
	COMMON/CLASF/ICLASS, TITLE (8)	THERMO	1107
1.0	FOULTALENCE (T1.TEFFOR(1))	THERMO	1188
	EQUIVALENCE (100T(1) , x00T(1))	THERMO	1190
	DATA IBLANK/26*10+	THERMO	1191
	D414 NUSED.LTOTAL/69.1020/	THERMO	1192
	ISUMM=10HS/M =	THERMO	1193
15		THERMO	1194
	TELLINES - MINOLOGIO ON MICHIEF 17'S + C4	INEKNO	1195
	NSKIP= (LTOTAL-NUSED-1) /68+1	THERMO	1197
	00 85 I-I-NSKIP	PHERMO	1198
20 8	85 WRITE(9,1000)	THERMO	1199
	NUSEU=0	THERMO	1200
	0 NUSED=NUSED+NLINES	THERMO	1201
	x	THERMO	2021
	1010 TOWNS INVIVIANCE OF THE PROPERTY OF THE P	INEKNO	1203
	CONTINUE	THERMO	1205
	-	THERMO	1206
6	0	THERMO	1207
	1003 FORMAT(IM1,28x,8£10)	THERMO	1208
30	MAILE (4) 1005) ((FREELICI)) = 1.5), J=1.5)	THERMO	1209
	1065 FORMAT (5 (1 x . A 10 . A 10))	THERMO	1210
	IPR=55555	THERMO	110
0	C*** PRINT 9876, ILTF, INTP, NLEFT, JEND, I BKGR, IPR	THERMO	1213
6	9876 FORMATILX,10171	THERMO	1214
	XHAX=MAXCNT*CONVF	THERMO	1215
	IE-4L06101XM4X1	THERMO	1218
	IEE=IABS(IE)	THERMO	1217
	THE COUNTY OF THE PARTY	THERMO	1218
,	I CONVERSION XFOLL ST. U	THERMO	1219
	TO T	THERMO	1221
	## 17400+1410+1410+1410+1410+1410+1410+1410	LINCKHO	1221
	IF (MOD (1,2), EQ. 0) XOUT (1) = 4H	THERMO	1223
	30 CONTINUE	THERMO	1224
	WRITE(9,1001) (XOUT(I),1=2,27)	THERMO	1225
	1001 FORMAT(1H0.5x,13t45,F5.2) 6x,26t5H ++	THERMO	1226
	IXCELL=NEFT	THERMO	1227
	1	THERMO	1569
,	בינוגרבוריון פטוס פס	THERMO	1229
	121211111111111111111111111111111111111	THERMO	1636
	1100 CC - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	THERMO	1231
	IF (IPRMTX.EQ.3) IBLANK (I-1)=1H.	THERMO	1233
			,,,,,
4	16(1101,69,9169-16-63	SHE DWO	1036

	K([-1)=1H)			
630 1000 630 1000 630 1000 630 630 630 630 630 630 630 630 630	NK(f-1)=1H)	THERMO	1234	
1003 1003 1009 1009 1009 1009		THEON	0001	
1006 1006 1006 1006 1006	and an extension of the contract of the contra	THERMO	1240	
1003 1009 1009 1009 1006		THERMO	1241	
1008 1009 1009 1009 1009	63	THERMO	1242	
1003 1009 1009 1009 1009	EXCELLATIONE INTRA 160 TO 65	HERMO	5431	
1003 1003 1009 1009 1009		THERMO	1244	
1003 1009 1009 1009 1009	67.100) 60 TO 45	THERMO	1246	
1003 1009 1009 1009 1009		THERMO	1201	
1003 1008 1009 1009 1009 1009		THERMO	1248	
1003		THERMO	1249	
1003 1009 1009 1009		THERMO	1250	
6301		THERMO	1621	
1008 1009 1009 1009 1009		THERMO	1626	
1008 1009 65 65 1009 1009		THERMO	1254	
1008 1008 65 65 65 69 1009		PHERMO		-
990 1009		THERMO	1256	
900 1009		THERMO	1521	
1008 1009 1009 1009		THERMO	1258	
900 1009		THERMO	1259	
1008 1009 1009 1006		THERM	0031	
900 1	MRITE (9, 1008) IOUT (1), ((IBLANK(J), IOUT (J+1)), J=1,26)	THERMO	1262	
900 1006		THERMO	1263	
946 7 946 7 946 7 946 7 946 7 946 7 946		THERMO	1264	
946 65		THERMO	1266	
946 910 910 910 910 910 910 910 910 910 910	** / / / K + 26 + 1 H + + 4 + 1 +	THERMO	1867	
900 1009		THERMO	1268	
91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IFFIXCELL. 6T. 100.CR. IXCELL. 6T. JEND. OR. IXCELL. 6T. NRIGHTI 60 TO 900	THERMO	1269	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		THERMO	1270	
910 00 00 00 00 00 00 00 00 00 00 00 00 0		THERMO	1272	
1009 1009 1009 1009	13um	PHERMO	1273	
9 21 6 6 7	ATRIX VALUES ARE IN COUNTS"/,	THERMO	1274	
9 99 99	THAN 123 F COUNTS TO	THERMO	5421	
016 1906 **	THE REPORT OF THE PERSON AND THE PER	THEBRO	1276	
900		THERMO	1278	
1006		FHERMO	1879	
1006		THERMO	1280	
1906	A STATE OF THE PARTY OF THE PAR	THERMO	1881	
	SUMMINATION AND TO BE MILLER OF DAME	THERMO	1282	
	AIRTY ALVES ARE 10 DE HOLITCIEU BITT	THERMO	1284	
. TXX BLANK CELLS ARE LESS	TAT TOLANK CELLS ARE LESS THAN TELES 9,16H WATT / CONSO. STR.	FHERMO	1605	
. 7X,46,F15.10,16H WATT/(CMSQ*STR)	CHSQ*STR)	THERMO	1286	
IF (SR.LE. 10.0)60 10 999	At the property and assembly and the state of the state o	THERMO	1587	
MSTREASON*RESRAD* (SR*30°48)***	7.4 (94.	THERMO	1288	
1007	TT/STR*)	THERMO	1290	
999 CONTINUE		THEOMO		

94.95	59.36. PAGE 4	PECIFIED FOR THAT DESCRIPTOR. PECIFIED FOR THAT DESCRIPTOR.		
12.558.54. THERMO 1294 THERMO 1295	09/29/76 12,59,34.	AS THE HINIMUM SI		
556947+554 XIT	FIN 4.2+74355	12CO 105 FIELD WIDTH OF A CONVERSION DESCRIPTOR SHOULD BE AS LARGE AS THE MINIMUM SPECIFIED FOR THAT DESCRIPTOR. 43CD 100 FIELD WIDTH OF A CONVERSION DESCRIPTOR SHOULD BE AS LARGE AS THE MINIMUM SPECIFIED FOR THAT DESCRIPTOR.		
TRACE	TRACE	CONVERSION		
74/74 OPT=1	74/74 OPT=1 TRACE	FIELD MIDTH OF A FIELD MIDTH OF A		
SUBROUTINE PATHTX RETURN END	SUBROUTINE PRTHTX SEVERITY DETAILS	12C0 105 43C0 106		
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IPR IPX ISUN2 ITPT	INTEGER		IPMIX	115		INTEGER		IPHTX		
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ISUN2 ITPT INTP	TWPFGF			1				X Judi		
INTP	INTEGER			-		INTESER		,,		
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IXCELL	INTEGER			26		THEFE		TDMT		
510	INTEGER	*****	* 1000	•	SENO.		*****	11101		
LTOTAL	INTEGER		*****		6 MAXCNT		-	IPHTX		
NFR	INTEGER		TPMTX	-			-	IPHTX		
NLINES	INTEGER				1 NRIGHT			IPHTX		
WSKIP	INTEGER			306						
RESLFT	REAL		IPMTX	112		REAL		IPHTX		
12 KESHFI 1	RE AL	ADDAY	CLASE		3 3K	REAL		****		
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XMULT	REAL			534		REAL	ARRAY			
115 XTRK	REAL		IPHTX	111	7 YTRK	REAL		IPHTX		
					1					
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		1K65				69.534.4				
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100 1 100 1	RAJON DECLEY JOHN GENERA, F.10HSUBECT T.10HO GENERA, CA.10HLY DOWNGR. 10HDE AT TWD. JOHNECLASSIFY.10H NATOR J.10H CASSIFY.10H	HERMO	1306 1308 1308 1308 1309 1309 1310 1311 1315 1316 1319 1319 1328 1328
1000 1 10	(C4.10H 11092 (C4.10HL T DOWNGR, 10HADE AT TW3, 1.10HOCCLASSIFF, 10H ON 6.10HT THE ORIG, 10H INATOR 6.10HT THE ORIG, 10H ON 6.10, IE, IW, IN RETURN (STURN ISN, IDATE, IRUN, IDAT 190,2,5,-1,5HSTART, N)	THERMO	1305 1305 1305 1305 1306 1309 1310 1311 1315 1315 1315 1316 1319 1319 1320 1321
900 1 100	# S. 10 POECLASSIFY 10 PON	HERMO	1305 1305 1306 1307 1307 1313 1313 1315 1315 1315 1316 1316 1316
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1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**ID, IE, IW, IN **ID, IE, IW, IN **ID, IE, IW, IN **ID, IE, IW, IN **ID, IE, IE, IW, IN **ID, IE, IE, IN, IN **ID, IE, IE, IN, IN **ID, IN, IN, IN, IN, IN, IN, IN, IN, IN, IN	THERMO TH	1310 1311 1313 1315 1316 1316 1316 1316 1316
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1000 FORM FEAD 500 FORM 10 FORM 11 FORM 10 CALL CALL CALL CALL CALL CALL CALL CALL	SETURN ISN.IDATE.IRUN.IDAV 1.1 1.1 1.1 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	THERMO THE THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERM	1910 1911 1913 1916 1916 1916 1916 1917 1918 1920
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900 FORM 1	90,2,5,-1,5MSTART,N)	THERMO THE THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERMO THERM	1313 1315 1316 1316 1319 1321 1321
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10 CORNI 10 CORNI 10 CORNI 10 CALL CAL	190,2,5,-1,5MSTART,N)	THERMO THERMO THERMO THERMO THERMO THERMO THERMO	1316 1318 1318 1318 1321 1321 1321
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1002 FORCH 100 CALL 100 CALL CALL CALL CALL CALL CALL CALL CALL	90,2,5,-1,5MSTART,N)	THERMO	1321 1321 1322 1323
1002 FORM 10 CALL CALL CALL CALL CALL CALL CALL CALL	90.2.51,5MSTART.N)	THERMO	1321
10 CALL CALL CALL CALL CALL CALL CALL CALL	90.2.51.5HSTART.N)	THERMO	1323
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11 11 12 00 20 20 20 20 20 20 20 20 20 20 20 20	(Negotiono Jones	THERMO	1325
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11 11 12 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6		THERMO	7821
11 12 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		THERMO	1333
12 12 13 8 13 8 13 8 13 8 13 8 13 8 13 8		THERMO	1335
12 0 13 8		THERMO	1336
12 0		THERMO	1330
13 R		THERMO	1339
-	Z=1,61	THERMO	1340
4.	The second section of the sect	THERMO	1342
10=1		THERMO	1343
50 20 CALL CHSIZV(2,2)	. FT	THERMO	1345
CALL	The second secon	THERMO	1346
-	RITE2V(450,420,1023,90,1,11,-1,11HPREPARED 3Y,N)	THERMO	1347
170RY'N)	. YOU I . SI . IT SIMPREE HAN HAINE HAILENE LA	THERMO	1349
55 CALL RITE EVI 350, 360, 1023,	RITE 241350131011023190111201-1120HTSK. CGLIN AL F. D. v FL	FLORED THERMO	1950

90.1.10.1.1FR0J.NJ 90.1.10.1.1FNN.NJ 90.1.10.1.1FNN.NJ 90.1.10.1.1FNN.NJ 90.1.10.1.1FNN.NJ 90.1.10.1.1FNN.NJ 601 90.1.241.24HFORHERLY RESTRICTED DATA.NJ 602 90.1.241.24HFORMERLY RESTRICTED DATA.NJ 605 90.1.241.24HFORMERLY EMFORMERLY 605 90.1.241.24HMARNING NJTIS.NJ 605 90.1.261.28HSOURCES AND METHODS INVCLVE INTITIONAL SEGURING AND METHODS INVCLVE 100.1.100.1.1 FRITE (1.L.) NJ		CALL CHS12V15,31	THERMO	1393	
CALL RITERINGENERS (1223) 901.101.1RSW.W. CALL RITERINGENERS (1223) 901.101.1ROW.W.W. CALL RITERINGENERS (1223) 901.101.1ROW.W.W. CALL RITERINGENERS (1223) 901.101.1ROW.W.W. CALL RITERINGENERS (1223) 901.101.1ROW.W.W. CALL RITERINGENERS (1223) 901.121.113 MRESIRECTED DATA.W.W. CALL RITERINGENERS (1223) 901.123.901.121.113 MRESIRECTED DATA.W.W. CALL RITERINGENERS (1223) 901.123.113 MRESIRECTED DATA.W.W. CALL RITERINGENERS (1223) 901.123.113 MRESIRECTED DATA.W.W. CALL RITERINGENERS (1223) 901.123.113 MRESIRECTED DATA.W.W. CALL RITERINGENERS (1223) 901.123.114 - 113 MRESIRECTED MRE	7		THE RAID	1034	
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CALL CHSIZE (2.2) (2.0)				****	
C.*** FREN DOD 5200.1-R PARA 4-601 130 CRL RITEZVISOR, PRAN 4-602 140 CALL RITEZVISOR, 940.1023-901.121-178RESPRENCED DATA,NN 150 CRL RITEZVISOR, 940.1023-901.121-178RESPRENCES NO NETHODS INVOLVE 150 CRL RITEZVISOR, 940.1023-901.141-178RESPRENCES NO NETHODS INVOLVE 150 CRL RITEZVISOR, 940.103-101.141-178RESPRENCES NO NETHODS INVOLVE 150 CRL RITEZVISOR, 940.103-101.141-178RESPRENCES NO NETHODS INVOLVE 150 CRL RITEZVISOR, 940.103-101.141-178.78 150 CRL RITEZVISOR, 940.103-101.141-178-178 150 CRL RITEZVISOR, 940.103-101.1			115040	136.	
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C**** FROM DOD 5200.1R PARA 4-602 140 CALL RITEZVI30990.1023-901.121-11.13ME3FRICTED DATA;N) C**** FROM DOD 5200.1R PARA 4-603 140 CALL RITEZVI30990.1023-901.1241.24HFORMERLY RESTRICTED DATA;N) ADD CALL RITEZVI30991.1R PARA 4-603 C**** FROM DOD 5200.1R PARA 4-603 C**** FROM DOD 5200.1R PARA 4-603 ADD CALL RITEZVI30991.1R PARA 4-603 ADD CALL RITEZVI30991.1R PARA 4-603 ADD CALL RITEZVI30991.1R PARA 4-603 CALL RITEZVI30991.1D PARA 4-603 ADD CALL RITEZVI30991.1D PARA 4-603 CALL RITEZVI3091.1D PARA 4-603 ADD CALL RITEZVI3091.1D PARA 4-603 CALL RITEZVI3091.1D PARA 4-603 ADD CALL RITEZVI3091.1D PARA 4-603 CALL RITEZVI3091.1D PARA 4-603 ADD CALL RITEZVI3091.1D PARA 4-603 CALL RITEZVI3091.1D PARA 4-603 ADD CALL RITEZVI3091.1D PARA 4-603 COT 00 03 03 03 03 03 03 03 03 03 03 03 03		1F (1E-2) 130, 140, 150	THERMO	1363	
100 CALL RITERVISOR 500.1253 901.12.1.13MRESKICTED DATA.N) CO TO 160 CALL RITERVISOR 900.1253 901.12.1.124HFORNERLY RESTRICTED DATA.N) LO FOLLO E 200.1-R PARA 4-603 LOO STOLE RITERVISOR 900.1253 901.12.1.124HFORNERLY RESTRICTED DATA.N) LO FILIALT.11 60 10 176 CALL RITERVISOR 900.1253 901.12.1.124HMARNING MOTICES NO TELLIGEMENT AND THE STOLE REPUBLISOR 901.12.1.12.131 LOO TO 130.301.301.311.312.10 LOO TO 130.301.301.312.131.10 LOO TO 130.301.301.312.131.10 LOO TO 130.301.301.312.131.10 LOO TO 130.301.301.312.131.10 LOO TO 130.301.301.301.131.10 LOO TO 130.301.301.301.131.10 LOO TO 130.301.301.301.131.101.11.101.11.121.20 LE PRODECTION 902.1RITE(1.47) [ALLY:L-15.80] LE PRODECTION 903.902.1RITE(1.47) [ALLY:L-15.80] LE PRODECTION 902.1RITE(1.47) [ALLY:L-15.80] LE PRODECTION 903.902.1RITE(1.47) [ALLY:L-15.80] LE PRODECTION 903.903.903.903.903.903.903.903.903.903.	3	FRCH	THERMO	1364	
C**** FROW DOD 5200.1-R PARA 4-602 140 CALL RIEEZVISO,900.1023,901,1241.24HFORNERLY RESTRICTED DATA,N) 60 TO 150 C**** FROW DOD 5200.1-R PARA 4-603 150 CALL RIEEZVISO,900.1023,901,1291.24HFORNERLY RESTRICTED DATA,N) 150 CALL RIEEZVISO,901.1023,901,171.17HHO FOREIGN 315554,H) 150 CALL RIEEZVISO,1023,901,171.17HHO FOREIGN 315554,H) 150 CALL RIEEZVISO,1023,901,171.17HHO FOREIGN 315554,H) 150 CALL RIEEZVISO,1023,901,171.17HHO FOREIGN 315554,H) 150 CALL RIEEZVISO,1023,901,121.24HSCHSITELLIGENGE,H) 150 CALL RIEEZVISO,1023,901,121.24HSCHSITELLIGENGE,H) 150 CALL RIEEZVISO,1023,901,121.24HSCHSITELLIGENGE,H) 150 FROODE 01902,181E(1.12) IANITIALITATIONING 150 TO 10 01 01 01 10 01 10 01 10 01 10 01 10 01 10 01 10 01 10 01 10 01 01	- 13	10 CALL RITCEVINED. 910, 1023, 90,1,15, -1,1948ESTRICTEO DATA, W	HERMO	1363	
C**** FOR DOD 5200.18 PARA 4-662 150 CALL RITEZVI309-901.1241.24HFORHERLY RESTRICTED DATA,N) 250 CALL RITEZVI309-901.1259-01.7291.24HFORHERLY RESTRICTED DATA,N) 250 CALL RITEZVI309-901.1259-901.7291.29HRATIONAL SESULIT INFORMATI 260 DOD 5200R PARA 4-665 CALL RITEZVI420-901R PARA 4-665 CO GO CO			THERMO	1366	
140 CALL RIFEZVI380,900,1023,901,24,-1,24HFGRHERLY RESTRICTED DATA,N) 140 CALL RIFEZVI380,900,1023,901,24,-1,24HFGRERLY RESTRICTED DATA,N) 150 CALL RIFEZVI380,900,1023,901,124,-1,14HRGRIG SISSEM,H) 170 IF (IM.10.1) GO TO 180 170 IF (IM.10.1) GO TO 18		FROT	THERMO	1367	
C**** FROM DOD 5200.1-R PARA 4-603 150 CALL CITECH(330,904,120, -1,29)HMATIONAL SCOURITY INFORMATION 100 SEGUILAR PARA 4-603 CALL RIFERINGO SEGUILAR PARA 4-605 CALL RIFERINGO SEGUILAR SEGU	14	CALL	THERMO	1368	
C**** FROM DOD 5201.1-R PARA 4-605 100 AND 1200 5201.1-R PARA 4-605 C**** FROM DOD 5201.1-R PARA 4-605 C**** FROM DOD 5201.1-R PARA 4-605 C***** FROM DOD 5201.1-R PARA 4-605 C***** FROM DOD 5201.1-R PARA 4-605 C***** FROM DOD 5201.1-R PARA 4-605 CALL RIFE2VIZ2.7-B0.1023.901.1-1.1-HWH RANING NOTICE.NI CALL RIFE2VIZ2.7-B0.1023.901.1-201.2-NH RANING NOTICE.NI CALL RIFE2VIZ3.7-B0.1023.901.1-201.2-NH RANING NOTICE.NI CALL RIFE2VIZ3.7-C.1023.901.1-201.2-NH RANING NOTICE.NI CALL RIFE2VIZ3.7-C.1023.901.1-1.1-1.1.3.3 ENCODE 600.902.RIFE[1.2] [AA(1).(IA(1)1-6.7)] CA TO 50			THERMO	1369	
100 CALL RICEVESSA, SEGINGES SOLITES - 1. COMMATIONAL SESSIFICATION OF CALL RICEVESSA, SEGINGES SOLITES - 1. COMMATIONAL SESSIFICATION OF CALL RICEVESSO. REAL SEGINGES SOLITES - 1. COMMATICE - 1. COMMA	••0		THERMO	1370	
100 16 (1M.17.1) 60 70 179 CALL RIFERVISON-SEO.1-R PARA 4-605 CALL RIFERVISON-SEO.1-R PARA 4-605 CALL RIFERVISON-SEO.1-R PARA 4-605 CALL RIFERVISON-SEO.1-R PARA 4-605 CALL RIFERVISON-SEO.1023-901,1011.44HARNING NJTC2:NJ CALL RIFERVISON-SEO.1023-901,1012.44HARNING NJTC2:NJ CALL RIFERVISON-SEO.1023-901,1012.15] SENCORE 100.902-1RIFE(1,21) [A(1).1-11.13] CALL RIFERVISON-SEO.1023-901,10.11.11.12.15.15 SENCORE 100.902-1RIFE(1,21) [A(1).1-11.13] CALL RIFERVISON-SEO.1023-901,10.1.RKK) [ARL1.1-12.1.2] SENCORE 100.902-1RIFE(1,21) [A(1).1-12.1.2] CALL RIFERVISON-SEO.1023-901,10.1.RKK) [ARL1.1-12.1.2] SENCORE 100.902-1RIFE(1,21) [A(1).1-12.1.2] CALL RIFERVISON-SEO.103-902-1RIFE(1,1.1.1.1) SENCORE 100.902-1RIFE(1,21) [A(1).1-12.1.2] SENCORE 100.902-1RIFERVISON-SEO.1.801.1 [A(1).1-12.1.1] SENCORE 100.902-1RIFERVISON-SEO.1.801.1 [A(1).1.1.1.1] SENCORE 100.902-1RIFERVISON-SEO.1.801.1 [A(1).1.1.1.1.1] SENCORE	4	:0 call rifeevissayglosiols 9001, for 1 permits 1 cannal sesurity informati	FHERMO	-	
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C**** FRON DOD 5200.1-R PARA 4-605 GAL RIFERVISOR OF 0.00 CALL RIFERVISOR OF 0.00 GAL RIFERVISOR OF	4		THERMO	1973	
. 17	***3		THERMO	1374	
170 [F(IM.LT.1) GO TO 180 CALL RITEZV(420,760,1023,901,14,-1,14)HMARNING NJICE,N) CALL RITEZV(420,760,1023,901,14,-1,14)HMARNING NJICE,N) CALL RITEZV(420,760,1023,901,128,-1,28)HSGNSTITVE INFELLIGENCE 14) CALL RITEZV(420,760,1023,901,128,-1,28)HSGNSTITVE INFONCE NO NETHODS INVCLVE LOTO (30,301,301,301,31,32) ID 30 ENCOME (90,992,RRITE(1,21) IA191,IA1101,IA111,L=3,7) CO TO 33 31 ENCOME (90,902,RRITE(1,21) IA191,IA1101,IA111,L=3,7) SE ENCOME (80,902,RRITE(1,21) IA191,IA111,L=3,7) CO TO 60 40 ENCOME (80,902,RRITE(1,21) IA191,IA111,L=4,7) CO TO 60 41 ENCOME (80,902,RRITE(1,41) IA1141,IA1151,ICAT CO TO 60 42 ENCOME (80,902,RRITE(1,41) IA1141,IA1151,ICAT CO TO 60 43 ENCOME (80,902,RRITE(1,41) IA1141,IA1151,ICAT CO TO 60 44 ENCOME (80,902,RRITE(1,41) IA1141,IA1151,ICAT CO TO 60 45 ENCOME (80,902,RRITE(1,41) IA1141,IA1111,IA111		CALL RIFE 2V1400.040.1023.90.1.171.17HNO FOREIGN DISSEM.N	THERMO	1375	
CALL RITEZVIZADIRE PARA 4-604 CALL RITEZVIZADIRE 1023-901.1141.144HARNING NJTIJ.NI CALL RITEZVIZADIRE 1023-901.1261.26HSOURCES AND HETHODS INVCLVE LOTAL RITEZVIZADIRE 1023-901.1261.26HSOURCES AND HETHODS INVCLVE LOTO 10 10 10 10 10 10 10 10 10 10 10 10 10	17		THERMO	1376	
CALL RITEZVIAZO, 760.1023.90.1141.144WARNING NOTICE.N) CALL RITEZVIAZO, 760.1023.90.1.761.26HSGURGES AND METHODS INVCLVE 107th 180 IF(IR.GT.10) GO IC. 100 GENODE (10.902-IRITE(1.21) IA(1).14(1).14(1).14(1).16(1)	****	F	-		
### ##################################		CALL RITEZY(420.760.1023.90.1.141.14HMARNING NOTICE.N)	THERMO	1378	
180 IFIR. GT. 101 GO 1C 100 180 IFIR. GT. 101 GO 1C 100 ENGOBE 1809 96 1 I I 100 ENGOBE 1809 96 1 I I I I I I I I I I I I I I I I I I			THEBRO	1880	-
180 [F(IR.GT.10) GO IC 100 180 [F(IR.GT.10) FO IC 100 18		CALL DITESTICATE TO 1021 OF 14 24 14 15 15 15 15 15 15 15 15 15 15 15 15 15	ON OUT		
180 IFIR. GT. 101 GO TC. 100 ENGODE COTYSET RAITE (1.1) GO TO (30.30-30-36.31.32) ID SO TO (30.30-30-36.31.32) ID SO TO TO 33 SI ENCODE COTYSET (1.2) [A11.1-5.7] SE NOTE COTYSET (1.2) [A11.1-1.11.3] SE NOTE COTYSET (1.2) [A11.1-1.1.3] SE NOTE COTYSET (1.2) [A11.1-1.1.3] SE NOTE COTYSET (1.2) [A11.1-1.1.3] SO TO SO SE COTYSET (1.2) [A11.1-1.1.3] SO SE COTYSET (1.3) [A11.1-1.1.3] SO SE COTYSET (1.3) [A11.1-1.1.3] SO SE COTYSET (1.3) [A11.1-1.1.3] SO SETURE SO SETURE		THE STREET STREET STREET SOUTH THE SUPPOSE OF THE STREET S	THERMO	1000	
### ##################################		20 00 101 10 01 101	DEN STATE	1061	
GO TO (30,30,30,31,32) ID 30 ENCOUE (80,902,1RITE(1,21) [IA(1),1E3,7) 60 TO (3) 31 ENCODE (80,902,1RITE(1,21) [IA(1),1E1,13) 32 ENCODE (80,902,1RITE(1,21) [IA(1),1E1,13) 42 ENCODE (80,902,1RITE(1,21) [IA(1),1E4,7) 43 ENCODE (80,902,1RITE(1,41) [IA(1),1E4,7) 44 ENCODE (80,902,1RITE(1,41) [IA(1),1E4,7) 45 ENCODE (80,902,1RITE(1,41) [IA(1),1E4,7) 46 ENCODE (80,902,1RITE(1,41) [IA(1),1E4,7) 50 KKKE 60 TO 60 41 ENCODE (80,902,1RITE(1,41) [IA(1),1E2,2) 51 KKKE 60 TO 50 52 KKE 64 EFFECTION THE MECODE (80,902,1RITE(1,4KK)) [IA(1),1E2,2) 11 F(N,E0,1H) ENCODE (80,902,1RITE(1,4KK)) [IA(1),1E2,2) 12 F(N,E0,1H) ENCODE (80,902,1RITE(1,4KK)) [IA(1),1E2,2) 13 ENCODE (80,902,1RITE(1,41) [IA(1),1E2,2) 14 ENCODE (80,902,1RITE(1,4KK)) [IA(1),1E2,2) 15 F(N,E0,1H) ENCODE (80,902,1RITE(1,4KK)) [IA(21),1R(22),1DCLAS 15 F(N,E0,1H) 16 GA LE1,4H 17 ENCODE (80,902,1RITE(1,41),N) 18 ENCODE (80,902,1RITE(1,41),N) 1	97	CHOCKETON ON TOTAL	HERMO	1382	
30 EWODE 60.902-1818 [1.21] [1411-1-37] 60 TO 33 31 EWODE 60.902-1818 [1.21] [141].1=11.13 32 EWODE 60.902-1818 [1.21] [141].1=11.13 50 TO 10 10 10 10 10 10 10 10 10 10 10 10 10			and and	coct	
31 ENCODE (80.902.IRITE(1.2)) IA(4).IA(10).IA(1).L=4.7) 32 ENCODE (80.902.IRITE(1.2)) IA(4).L=4.7) 32 ENCODE (80.902.IRITE(1.2)) IA(4).La(1).L=4.7) 40 TO (40.401.401.41.12) IA(4).IA(1).L=4.7) 40 ENCODE (80.902.IRITE(1.4)) IA(14).IA(15).ICAT 41 ENCODE (80.902.IRITE(1.4)) IA(14).L=4.7) 42 ENCODE (80.902.IRITE(1.4)) IA(15).ICAT 50 TO 50 41 ENCODE (80.902.IRITE(1.4)) IA(15).ICAT 50 TKKE=5 60 IF (IR.G.1HUENCODE (80.902.IRITE(1.4)KK)) IA(21).IA(22).IOCLAS 51 IF (H.E.G.1H HENCODE (80.902.IRITE(1.4)KK)) IA(21).IA(22).IOCLAS 52 CALL RITE2V(80.NY.1023.90.1.80.1.IRITE(1.1).N) 53 ENCODE (80.902.IRITE(1.4)) 54 CALL RITE2V(80.NY.1023.90.1.80.1.IRITE(1.1).N) 55 ENCODE (80.902.IRITE(1.1).N) 56 ETUKN 57 ETUKN 58			HERMO	1304	
31 ENCODE (80.902.IRITE (1.21) IA(9).IA(10).IIA(1).L=4.7) 50 (0) (40.902.IRITE (1.31) (IA(1).L=11.13) 32 ENCODE (80.902.IRITE (1.21) IA(9).(IA(1).L=4.7) 60 TO 60 40 ENCODE (80.902.IRITE (1.41) IA(14).IA(15).ICAT 60 TO 50 41 ENCODE (80.902.IRITE (1.41) IA(14).IA(15).ICAT 50 KKE5 60 TO 50 61 ENCODE (80.902.IRITE (1.41) IA(11).L=2.20) IF (M. Eq. 1HUJENCODE (80.902.IRITE (1.4KK)) IA(11).L=2.20) IF (M. Eq. 1HUJENCODE (80.902.IRITE (1.4KK)) IA(22).IOCLAS IF (M. Eq. 1H) ENCODE (80.902.IRITE (1.4KK)) IA(22).IA(22).IOCLAS IF (M. Eq. 1H) 60 dG L=1.HH			THE KIND	-	
31 ENCODE 60.902.IRIE (1.2) [A44].LA101, La1,13) 52 ENCODE 60.902.IRIE (1.2) [A44].LA101, La4,7) 52 ENCODE 60.902.IRIE (1.2) [A44].LA101, La4,7) 54 ENCODE 60.902.IRIE (1.4) [A41].LA101, La4,7) 50 TO 60 41 ENCODE 60.902.IRIE (1.4) [A41].LA101, LA101,		60 10 33	THERMO	1386	
32 ENCODE 60.902-IRITE(1.2) [IA(1).L=4.7) 40 TO (4014014014112) [A(1).L=4.7) 40 ENCODE 60.902-IRITE(1.2) [A(1).L=4.7) 40 ENCODE 60.902-IRITE(1.4) [A(11).L=4.7) 50 TO 50 41 ENCODE 60.902-IRITE(1.4) [A(11).L=4.20] 50 KKK=5 60 IG 10.50 41 ENCODE 60.902-IRITE(1.4KK) (IA(1).L=21.2) 1G IN-E0.1HU-ENCODE 60.902-IRITE(1.4KK) (IA(1).L=21.2) 1G IN-E0.1HU-ENCODE 60.902-IRITE(1.4KK) IA(21).IA(22).IOCLAS 100 WI-700 11 EN E0.1H HENCODE 60.902-IRITE(1.4KK) IA(21).IA(22).IOCLAS 100 AG L=1.4H CALL RITE2460.NY.1023.90.1.80.1.RITE(1.1).N) 80 WI-NY-20 20 RETURN 300 IG KR.L		ENCOUE (50 , 902 , 1K1) E (1 , 2)	THERMO	130	
32 EWCODE (80.902.TRITE (1.21) IA(8).(IA(L).L=4.7) 44 EWCODE (80.902.TRITE (1.41) IA(14).TA(15).TCAT 50 TO 50 41 EWCODE (80.902.TRITE (1.41) IA(14).TA(15).TCAT 50 KKE5 60 TO 50 10 F(R. 50.14) EWCODE (80.902.TRITE (1.4KK)) (IA(L).L=21.2) 15 (W. 60.14) EWCODE (80.902.TRITE (1.4KK)) IA(21).TC (2.2) 16 WF 700 17 (W. 60.14) H= KKK 18 WF 700 19 WF 700 20 AC L L 1.4M 20 AC L 1.4M		ENCODE (80 . 902 . IKI IE (1 . 3))	INERMO	1388	
32 EWCODE (80,902, IRITE (1,2)) IA(1), (IA(L), L=4,7) 60 TO 60 40 EWCODE (80,902, IRITE (1,4)) IA(15), IA(15), ICAT 60 TO 50 41 EWCODE (80,902, IRITE (1,4)) IA(15), ICAT 50 EWES 61 TO 50 61 EF (18, GT, 1) HO EWCODE (80,902, IRITE (1,4KK)) (IA(L), L=21,20) 1 F (18, GT, 1) HO EWCODE (80,902, IRITE (1,4KK)) (IA(L), L=21,20) 1 F (18, GT, 1) HO EWCODE (80,902, IRITE (1,4KK)) IA(12), IOCLAS 100 MT-700 1 F (18, GT, 1) HO EWCW 100 A G (1 = 1,4H) 100 A E		4364744344044041041 01 00	-	1983	
# # # # # # # # # # # # # # # # # # #		ENCODE (80,902, IRITE (1,2))	THERMO	1390	
60 TO 60 40 ENCODE 100.902. IRITE(1,4)? IA(14). IA(15). ICAT 60 TO 50 41 ENCODE 100.902. IRITE(1,4)? (IA(1). L-15,20) 50 KKR. 50 KKR. 50 KKR. 50 KKR. 51 KKR. 51 KKR. 60 IF(IR. 60.1HU)ENCODE (80.902. IRITE(1, KKR.) (IA(1). L-21,2) 15 IF(W. 60.1HU)ENCODE (80.902. IRITE(1, KKR.) (IA(1). L-21,2) 15 IF(W. 60.1H HEKKR 15 IF(K. 60.1) HHEKKR 16 WT-700 16 GC L-1, HH 17 CAL KITE2V(80.NY.1023.90.1.80.1.IRITE(1.L).N) 16 NENY-20 20 RETURN 20 RETURN 300 IF(K. I. 1.100.1.K. 67.1.1) RETURN		The second secon	THERMO	1961	-
40 ENCODE:00.902.FRITE(1.41) IA(15):ICAT 60 TO 50 41 ENCODE:00.902.FRITE(1.41) (IA(1).L=16.20) 50 KKK=5 60 IF(IR.67.11) 60 TO 100 1 IF(IR.67.11) 60 TO 100 1 IF(IR.67.11) 100		09 01 09	THERMO	1392	
60 TO 50 ***L********************************			THERMO	1393	
*1 ENCOCETOT-STRIFETT-\$1; *17 (IAIL*)*L-16;20; 50 KKRE; 60 EFFIR. GF. 11 60 F0 100 IF (M.EQ. 1HU) ENCODE (80,902; IRITE(1,KKF)) (IAIL*)*L=21,20) IF (M.EQ. 1HU) ENCODE (80,902; IRITE(1,KKF)) (IAIL*)*L=21,20) IF (M.EQ. 1H) ENCODE (80,902; IRITE(1,KKF)) IAIL**T*********************************		60 10 50	THERMO	1394	
50 KKK=5 60 IF(IR.0T.11 60 T0 100 IF(IR.0T.11 60 T0 100 IF(IR.0T.11 60 T0 100 IF(IR.0T.11 100 IC) SOU SETURN SOU FITER.IT.100 IR.0T.12) RETURN	100	-	-		-
60 IF (IR. 67.17 60 70 100 IF W. EQ. IHUIENCODE (80.902, IRITE(1, KKK)) (IA(L), L=21,20) IF W. EQ. IHUIENCODE (80.902, IRITE(1, KKK)) (IA(L), L=27,30) IF W. EQ. IH ENCODE (80.902, IRITE(1, KKK)) IA(21), IA(22), IOCLAS IF W. EQ. IH ENCODE (80.902, IRITE(1, KKK)) IA(21), IA(22), IOCLAS IF W. EQ. IH ELY W. EQ. IN W. IO 23,90,1,80,1, IRITE(1, L),N) 80 WEIUKN 20 RETUKN 300 IF W. L. I.		O KKK=5	THERMO	1396	
IF(W.EQ.1HUJENCOD(60,902,IRITE(1,KKK)) (IA(L),L=21,26) IF(W.EQ.1HUJENCOD(60,902,IRITE(1,KKK)) (IA(L),L=21,26) IF(W.EQ.1H) ENCOD(60,902,IRITE(1,KKK)) IA(21),IA(22),IDCLAS IF(K.EQ.1H) HHEKK O	•		THERMO	1397	distance and
IF (W.EQ.1MW) ENCODE (80,902, IRITE(1,KKK)) [A(21),IA(22), IOCLAS 100 WFT (100 W) IF (IK.EQ.1) HH=KKK 00 d6 L=1,HH CALL RITE2 (80, WY, 1023,90,1,80,1, IRITE (1,L),N) 80 W=WY-20 200 RETURN 1000 WY, 1000 W, 100		IF (M.EQ. 1HU) ENCODE (80.902. IRITE(1.KKK))	THERMO	1308	
IF(M.EQ.1H)ENCODE(80,902, IRITE(1,KKF)) IA(21),IA(22),IOCLAS 100 MT-100 17(IK.EQ.1) MM=KKF 00 d6 L=1,4H CALL RITE2V(80,NY,1023,90,1,80,1,IRITE(1,L),N) 80 N=NY-20 200 RETURN 11,100,18,67,19) RETURN			THERMO	1300	
100 WF-700 Iffix:0.1) MH=KKK 00 dc L=1,4M CALL RIFE2V(00,NV:1023,90,1,60,1,IRITE(1.L),N) 00 N"=NY-20 200 RETURN 100 NY:100 NY:100 NY:100 NETURN	165		THERMO	1400	
IFIER.20.1) MM=KKK 00 d6 L=1,4M	•	- 1			
00 d6 L=1,4HH CALL RITE2v(80,NY,1023,90,1,80,1,IRITE(1,L),N) 60 NY=NY=20 200 RETURN STORY STURN		IF(IK.co.1) MH=KKK	THERMO	1402	
60 N=NY-20 20 RETURN -20 200 RETURN -11.00.18.67.19) RETURN		00 dc t=1.##	THEBMO	1603	
60 NY=NY+20 200 RETURN 300 IF(IR:LT:10R:IR:67:19) RETURN		CALL RITE2V(80.NV.1023.90.1.80.1.IRITE(1.L).N)	THERMO	1404	
200 RETURN 300 IFTIK.LT.1.0R.IR.6T.19) RETURN			THEBMO	14.06	and the statement
00 Iftiket TrioReliketTri9) RETURN	2		THERMO	1406	
	96	ffifer Triograft (Triogram)	- CHESTO		-
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			200	200	

90.2.31.3MEMD.W) THERMO 90.2.4.1.5.108.W) THERMO 90.2.4.1.5.108.W) THERMO THERMO THERMO THERMO THERMO	CALL RITEZV(430,600,1023,90,2,3,-1,3HEND,N) CALL RITEZV(430,600,1023,90,2,3,-1,3HEND,N) CALL FAMEV(3) CALL FAMEV(3) FORM CALL F	310 CALL CHSSOTIC)	THERMO	1611	
CALL FRANCVI3) THERMO 1415 RETURN END THERMO 1417 THERMO 1417	END THERMO 1417 END THERMO 1417 END THERMO 1417	CALL RITES (450, 505) TABLIV CALL RITES (450, 505) 90,2,3,-1,3HEND.W)	THERMO	1413	
THERMO 1417	THERMO 1412	CALL FRANEVISI	THERMO	1415	
		KE TUKN E NO	THERMO	1417	

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		150 1000	
	PROGRAM LENGTH 14228 786		

	Cabins	HEROUTINE CLASSICE					THERMO	9147		
	OINEN	MENSION IC(2)					THERMO	1419		
		TTERMAL INDITY NTA ITS, IS, IC/10hTOP SECRET ,7h SECRET ,10HCONFIDENTI ,3HAL	OP SECRET ,	7H SECRET .1	LOHCONFI DENTI	.3HAL	/ THERMO	1421		
	11	CHSIZV(5,5) RITSTV(25,35,TABL1V)	ABLIVI				THERMO	1923		
	==	IL RITEZV(400,990,1023,90,2,10,1,ITS,N)	,1023,90,2,	10.1.ITS.N)			THERMO	1425		
	RETURN	TURN	17106167011	1M4 C 14 4 4			THERMO	1427		
1	CALL CALL	NLL RITEZV(430,000,1023,90,2,7,1,15,N)	,1023,90,2,	7.1.15.NI			THERMO	6291		
	ZO CALL D	PITE 2VESTO. 940	.1023.90.2.	13.1.TC.N)			THERMO	1430		
		CALL RITEZVISTO:040:1023:90:2:13:1:1C:N)	.1023,90,2,	13,1,1C.W			THERMO	1432		
	ENO						THERMO	1434		
w	SUGROUTINE CLASSG	74/74 OPT=1	TRACE		FTN 4.2+74355	74355	09/29/76	12.58.40.	PAGE	2
2	STHBULLS REFERENCE HI	HAP (REI)								
S	TYPE	RELOCATION	2							
7	INTEGER INTEGER INTEGER			197 16 135 118	INTEGER	REER				
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Common defent) Interest State State	SUBROUTINE BETPIL THIS SUBROUTINE READS AND FINDS NEXT THERMOVISION PICTURE. THERMO	1435	
	THERMO	1637	
		1439	
		1441	
	THERMO	1443	
	THERMO	1000	
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01	THERMO	1648	
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101111111111111111111111111111111111111	E.ICS.IBAD THERMO	1482	
105			
	THERMO	1484	
	THERMO		
IF (ICODE, EQ.4.AND.IN (ILMD), EQ.10H*END* TAPE*)	THERMO		
5 10ALL DONE(111)	THERMO	1400	1

	CONTINUE JEND= 0	THERMO	2647	
9	INCC. O SEE IF THIS RECORD CONTAINS SAMPLES WITHIN START/STOP.	THERMO	1494	
•	+	THERMO	1496	
37	115EC=5M1F1(1M1M1)-4421-4M0.777778	THERMO	1499	
	TIME (1) = ITSEC*1000 • ITMSEC	THERMO	1980	
	TT1=TIME(1) -START	THERMO	1501	
The same of the sa	TTZ=#851TIME(11=510P1 IF(TT1.6T.0)ICKSTF=0	THERMO	1503	
	IP(TTZ:LT:10000:)1CKSTP=1	THERMO	1904	
	IP (LCKS IP) 11C+11C+111	THERMO	1506	
•	TT3=TIME(1)-TLAST	THERMO	1507	
	IF (TLAST.NE.0.0.4MD.TT3.6T.10000.160 TO 112	THERMO	1508	
1.5	IF (TIME(1), 61, STOP) 60 10 990	HEKHO	1503	
211	1510P=0	THERMO	1511	
		THERMO	1912	
		THERMO	1513	
80 661		THERMO	1515	
	+	THERMO	1510	
113	CONTINUE	THERMO	1517	
85 114	CONTINUE	THERMO	1519	
-	1	THERMO	1520	
••••	THIS RECORD CONTAINS SAMPLES BETWEEN START AND STOP. BUILD TIME ARK	THE KHO	1521	
	TIME(I) = (I-1) * ONE+TIME(1)	THERMO	1523	
111	IFRM =SHIFT(IN(NT)6).AND.777778	THERMO	1525	
	IF1IFRH. 6E. WSR160 TO 150	THERMO	1526	
	CALL UNPACK(IN(NT), MTAB, ITIM)	THERMO	1527	
. 55	10136 1=2.NSR	THERMO	1529	
	IF (IFRM. 6E. 1160 10 130	THERMO	1530	-
	TIME(I)=ITIM(II) *1000, *ITIM(II+1)	THERMO	1531	
	FERTITAL	THERMO	1537	
100	0.11	THERMO	1534	-
	IF (IFRM.LT.I.OR.IFRM.GT.NSR)GO TO 130	THERMO	1535	
	00 125 J=I.IFR#	THERMO	1536	
	[=[+]	THEBNO	153/	
14.5 125	CONTINUE	THERMO	1539	
130	CCNTINUE	THERMO	8457	
791	Sinttimos	THERMO	1541	
101	IAEC=IREC+1	THERMO	1543	
110	INDX-IREC*42	THERMO	1544	-
••••	14 GET LINE COUNT AND DATA TYPE	THERMO	1545	

511	IFIIDIYP:EQ:0160 TO 200	THERMO	1550	
		THERMO	1661	
	155 CONTINUE	THERMO	1552	
	Coses IF VALID DATA BIT NOT ON, DO NOT PROCESS	THERMO	1993	
150	THE THE TABLE OF THE TOTAL TOT	THE WAR	1999	
	IF(LINSAV-LT.ITOP)60 TO 100	THERMO	1556	
	I=(LINSAV-ITOP)*100*1	THERMO	1997	
	IF (I.6T.9901) I = 9501	THERMO	1558	
521	IND=IND=50I	THERMO	1560	
	DO 160 J=IND ,INDZ,3	THERMO	1961	
	IMOI=IN(J)	THERMO	1562	
	IMD2=IM(J+1)	THERMO	1967	
130	100-11-04-10-10-10-10-10-10-10-10-10-10-10-10-10-	THERMO	6961	
	IPICT(I+1)=SHIFT(IMD1,-24).AND.1778	THERMO	1566	
	IPICT(I+2+=SHIFT(INDI,- 6+,AND:1779	THERMO	1961	
	IPICT(I+3)=SHIFT(IMD2,-48).AND.17778	THERMO	1568	
139	IPICITIEST SHIFT LINUX = 400 LTTTE	THEND	1570	
	######################################	1	183	
			1572	
	IPICT(100)=SMIFT(1MD3;=10).4M0.17775	THERMO	6461	
1+0	IPICT(1+9)=IW03.Ah0.17778	THERMO	1574	
	ULATEI CONTINUE	THERMO	1576	
	C**** CHECK THIS LINE FOR CONSTANT VALUES. IF 30 OR HOPE NORDS		1977	
	2		1578	
149	TXXI-I-100	THERMO	1580	
	ICOUNT IPICT (IXXI)	THERMO	1991	
	0=#I	THERMO	1582	
	00 165 JJ=IXXI:IXXZ	THERMO	1983	
150	[HE]	INEKNO	1504	
	GO TO 167	THERMO	1586	
		THERMO	1567	
	167 CONTINUE	THERMO	1588	
155	-	THERMO	1989	
	IXX2=IXX1+IW-1	THERMO	1590	
	00 168 JJ-1XX1-1XX2	THERMO	1661	
	TATOLOGY ==1	THERMO	1593	
100		THERMO	1594	
	09	THERMO	-1595	
		_	1596	
	T1=TIME(IREC)	THERMO	1598	
105	IN0=IN0X-41	THERMO	1599	
	IFIL=SHIFT(IN(IND), -49).AND.78	THERMO	1600	
	IVIDESHIFT (INCINO) 440) - AND 3B	THERMO	1602	
	. CALLOCATE TATALON CONTRACTOR CO	Succession		-
	TOWE-SULL IT IN THOSE AND THE PROPERTY	DANSHIP	CAOT	

200	18EFOR(5)=1VAL 18EFOR(6)=1VAL		1007	
250	BEFOR(6) = IVAL	THERMO	1608	
		THERMO	1609	
88	50 To 100	THERMO	1610	
250	CONTINUE	-		
052	I ACLI 2=1 T NCNT	THERMO	1613	
. 250	F(1084V, Fa. A)60 10 250	THERMO	1614	
250	O-WOOI	THERMO	1615	
250	60 10 199	THERMO	1616	
	CONTINUE	THERMO	1617	
	I DUN-I DUN-I	THERMO	1640	
	IF LIDUM-61-1760 IL 100	THEOM	1690	
	TOTAL METABOLI	THEBMU	1621	
	ICALINELIAEU	PHERMO	1609	
1	TETTETT TOTAL TOTAL TETTETT TOTAL TETTETT TOTAL TETTETT TOTAL TOTAL TETTETT TOTAL TOTAL TETTETT TOTA	THERMO	1623	
-	4	THERMO	186	
1	IVID=SHIFT(IN(IND) ++) AND 38	THERMO	1625	
	ICAL =SHIFT (IN(IND) - +3) . AND. 18	THERMO	1626	
1	IVAL=SHIFT(IN(IND), -42), AND.18	THERMO	1627	
The second secon	IAFIER(2)=7-IFIL	THERMO	1628	-
I 195	IAFTER(3)=7-IAP	THERMO	1629	
T	IAFTER(4) = 16000E(1V10+1)	THERMO	1630	
1	IAFTER(5) *ICAL	THERMO	1631	
	IAFTER(61-174L	THERMO	1632	
	60 TO 700	THERMO	1633	
-		THEKNO	1601	
200		THERMO	1635	
	CHECK TO SEE IT FICTORE IS WALTO	THERMO	0601	
	IF (IBEFUR 6). NE. IVALIDAMULIVANCE. 2060 10 100	TUCONO	1634	-
	ILICALI DE CALLO L'ENFOLT CALCOLOGICO DE CALCOLOGIC	THEOREM	16.70	
502	00 /10 1=2.6	SHEAD	1003	
	INTEREST OF THE TENT TO THE TOTAL	OF STATE OF	149.	
3 910	CONITOR	INCANO	1041	
	I DEFOR IT - I NOL I	THERMO	7401	
	AFTER(7) = IACLZ	THERMO	5401	
	I DEFOR(1) = 1+1	THERMO	. 3777	
	IAF LEK (1) = 1 12	THERMO	1042	
¥ - 009	KE TUKK	THERMO	2407	
066	CONTINUE	INERHO	1001	
	T-ADICO	THEDRO	1649	
5 566	One of the	THEBRO	1650	
		THERMO	1651	
	JENU-JENUAL	246947	1669	-
	IT (JEND-L'-2760 IL 101	THERMO	1653	
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355										
FTN 4.2+74355										
T.										
		TATEMEN								
RACE	EN.	THERE IS NO PLTH TO THIS STATEMENT.								
74/7" OPT=1 TRACE	DIAGNOSIS OF PROBLEM	01 H17								
TAO	O SISO	S NC P								
74.7	DIAGN	THERE 1								
PIC	AILS									
NE GET	Y 0£1									
SUBROUTINE GETPIC	CARU NR. SEVERITY DETAILS	1								
Su	NR. S	161						!		
	CARU									

	SYMBOLL	SYMBOLIC REPERENCE	HAP (R=1)							
F	ENTRY POINTS 1 GETPIC									
VARIABLES		SN TYPE	RE	RELOCATION						
738	IACLE	INTEGER			-	IAFTER	INTEGER	ARRAY	"	
772	TAP	INTEGER	ADDAY	,,,	776	ICAL	INTEGER			
-	TCAL TB	THTEGER		14004	128	ICH	INTEGER			
101	ICKSTP	INTEGER		POPFT	~	ICKSTR	INTEGER		POPFT	
747	ICS	INTEGER			240	IDSAV	INTEGER			
731	IOTYP	INTEGER			13.	TOUR	INTEGER			
~	IEND	INTEGER		POPFT	171	IFIL	INTEGER	,		
1444	TECODE	INTEGER	ARRAY		752	II	INTEGER			
-	TEND	INTEGER			1001	**	INTEGER	ARRAY		
151	INO	INTEGER			155	INDX	INTEGER			
160	INDS	INTEGER	> V 0 0 V	,,,	735	TREC	INTEGER			
17	1710	THEFFE	48844		786	THSEC	INTEGER			
16	ITOP	INTEGER		,,	743	ITSEC	INTEGER			
ŧ	1	INTEGER			=	27.5	THEFER		PADET	
156	IVAL	INTEGER			111	TANTE	TWEEGER			
761	I WO1	INTEGER			762	IMD2	INTESER			
763	IM03	INTEGER			764	IXXI	INTEGER			
592	IXXZ	INTEGER			154	,	INTEGER			
4	JSTOP	INTEGER		POPFT	723	KNUM	INTEGER			
153	-	INTEGER	-		733	LINCHI	INTEGER			
737	LINSAV	INTEGER	1000		722	LNUM	INTEGES			
1401	1000	TATEGER	AKKAI	DODE T	725	MT	TNTEGER			
-	NSK	THIEDER		-	1	- ONE	REAL		14404	
2 61	START	REAL		POPFT	9	STOP	REAL		POPFT	
1437	TIME	REAL	ARRAY		750	TIME	REAL	-		
721	TLAST	REAL			245	111	REAL			
746	112	REAL	-		1000	113	REAL			
ETIE	NAMES	MODE								
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TER	ALS.	TTPE	ARGS		-				And the second s	
	ABS	REAL	1			DONE				
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ATE	STATEMENT LABELS									
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STATEMENT LABELS 244 150 264 150 264 150 264 150 264 150 264 150 264 150 265 265 265 265 265 265 265 265 265 265	SUBROUTINE GETPIC	14/14	0PT=1	TRACE		FIN 4.2+74355	91/62/60	09/29/76 12.58.42.	PAGE	-
FMT 65 424 130	STATEMENT LABELS									
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	STATISTICS PROGRAH LENSTH CM LABELED COMMON LENGTH CH BLANK CCHMON LENGTH	1+508 1+8 236038								

-	SUBKOUTINE PLTSO	PHERMO	1090
		HEKMU	165/
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	THERMO	1659
-	NOTE CHANGE A CONTRACT OF THE	THERMO	1660
		HER HO	3991
	C MA=ONE DIMENSIONAL ARRAY CONTAINING DEPENDENT VARIABLE M.	THERMO	1663
	MACTINE FCU. VACTOR	THERMO	1665
10	IPASSEN INDICATES EVERY WIN POINT ON THIS CURVE TO NIN POINT OF	THERMO	1866
		THERMO	1667
	IPASS-1 IF THIS IS PIRST CALL FOR MEN PRAME.	THERMO	6991
	5	FHERMO	1670
	NPISE NO. OF PIS IN VA. MA ARRAYS.	THERMO	1671
-		THERMO	1672
		THERMO	1673
	COMMON INCOME AND AND THE COMMON OF THE TANKE TO THE TANKE THE TAN	THERMO	1675
0.7		FHERMO	1676
	ASS	THERMO	1677
		FHERMO	1679
	FOR DETERMING SCALES.	THERMO	1679
53	DR-EXTREME VALUE OF U FOR FOREGROUND.	THERMO	0001
	C UBACK EXTREME VALUE OF U FOR BACKGROUND.	FIFERIO	1602
	VRIGHT RIGHT MCST VALUE OF V	THERMO	1663
		FHERMO	1001
30	WTOP=MAX VALUE OF N	THERMO	1685
	THETA-ANGLE OF OBLIGUE AXIS WITH VERTICAL TRADIBASIS NOTE- IT THIS	THERMO	0001
	C IS ZEKO. THEN PLUI MILL DE INU DINENSIUNAL WILL U AND M AKES CO-	FREENO	1688
	DAXIS= VALUE OF V FT WHICH DAXIS IS TO BE DRAWN.	THERMO	1689
3.9	VAXIS= VALUE OF U AT WHICH V AXIS IS TO BE DRAWN.	THERMO	1690
	SECT.	THERMO	1691
	Control of the second of the s	THERMO	1693
-		THERMO	1694
6.0		HERMO	1695
	31,41,(8(51,8),(8(4),C),(8(6),0)	THERMO	16%
		THERMO	1697
-		LEDNO	1699
-	C.**** IF TROUT TANKON TO TRAIN OF USABLED BALLILLE TANKILLE TANKILLE OF THE TRAIN	HERMO	1700
	-	THERMO	1701
	ASCENDING OF DESCENDING.	THERMO	1702
		THERMO	1703
	C**** FIND SCALE VALUES TO MAKE VARIABLES PROPORTIONAL	1	1041
20	ULNIH= ABS (UFOR-UBACK)	HEKAD	1705
		THEOMO	1707
	the second secon	FHERMO	1709
	SCALLESCHILL	THERMO	1709
		ONCL	47.
-	SCALVESON: NATH		27.7

19 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60			-	
92		THERMO	1713	
61 82	SCALVE 1.	CHERMO	1714	
		THERMO	17.19	
02	CONTINO	THERMO	1716	
92	OTEX=II NTURCELO	THERMO	111	
20	STATE OF THE PROPERTY OF THE P	LHEKAD	1/18	
50	IF (THE TA.6%.0.016C TO 20	THERMO	1720	
	XRIGHT=VRIGHT+SCALV	THERMO	17.51	
	XLEFT=VLEFT*SCALV+DIFX	THERMO	1722	
	60 10 30	THERMO	1723	
200	CONTINUE	THERMO	1724	
	ALET THEET COURTS	THERMO	62.17	
UE		INEXHO	17.00	
	TOP=(MTOP-MBOT) +SCALM+ULNTM+COS (THETA)+MBOT+SCALM	THEDWO	1724	
A STATE OF THE PARTY OF THE PAR	FBOT=WBOT+SCALW	THERMO	1770	
75 750	SCALE=YTOP-YBOT	THERMO	1730	
	XSCALE=465txRf6HF×LEFTt	Тиевно	1647	
		THERMO	1732	
:	CONTROL THEO TO ELEMENTE AND AND OFFICE	THERMO	1733	
	SCALING LATO TO CLIMENATE MASSAVE CALLS	INERHO	1734	
73	CALL SCISAVIR)	THERMO	1936	
-		INCHIO	17.30	
		THERMO	1738	
•	AXIS)	THERMO	1739	
95 051	DELU=ABS (VAXIS-UFCR) + SCALU	THERMO	1740	
	DX=DELU*SINtTMETA)	THERMO	1741	
CI	I JELX= (OX/XSCALE) *924.	THERMO	1742	
101	TOPLY TOY VICTAL EL PORT.	THERMO	200	
30	IXI=NXV(VLEFT*SCALV)+IDELX	FUEDEN		
I	ITT=NY (UVPLNE +SCALM) + IDELY	THERMO	1746	
1.00	= NX V (VR IGHT * SCAL V) * TOELX	THERMO	1747	
IAI	IY2*IY1	THERMO	1748	
	CALL LINEVIEWINING TARATTER	THERMO	1943	
25	IVI.01)=1X1	THERMO	1750	
	177 17 17 17 17 17 17 17 17 17 17 17 17	THERMO	1751	
	[4(2,2)±1V2	THERMO	1752	
		THERMO	1753	
100	##131	Charle Charles	11.24	
IXI	IXI=NXV(UAXIS+SCALV)+IDELX	THERMO	1756	
LA	IXP=IXI		1757	
	TIENT CHBOT SCALNI + IDELY	THERMO	1759	
217	CAL INCLINE TVA TVA TVA TVA	THERMO	1759	
		INEKHO	1760	
•	IM(2,1)=IY1	THERMO	1762	
	IN(1,2)=IXE	THERMO	1763	
-	#(2,2)=IY2	THERMO	1764	
110	II AYTCI	THERMO	1765	-
		INFRAO	1/00	
IXI	IX1=NXV(UAXIS*SCALV)	THERMO	1768	

en en			-	-	1
	YZ=ULNTN+COS (THETA) +UVPLNE*SCALN		THEFT	1771	
	X2=DIFX+UAXIS+SCALV		THERM		1
	I CANALY CALL		THERMO	1773	
	11C=U111C1		THERMO	1774	1
120	IU(1,1) = 1X1		THERMO	1775	
-	INICATION		THERMO	1110	
	IU(1,2)=1X2		THERMO	1111	
	10(2,2)=172		THERMO	1779	
,			THERMO	17.80	
	IF (IPASS.EQ5) RETURN		THERMO	1781	
	19455-1465-1794551		THERMO	1783	
	TATITALIZE VALUES		THERMO	178	
130	MINY(I)=1000		THERMO	1785.	
	1		THERMO	1787	
	IF (1.67.120)60 TC 60		FREEHO	8847	1
	DECEMBER 1		THERMO	1789	
135 60	CONTINUE		THERMO	1790	-
	NCURY=IABS(IF (R-18ACK)+1		THERMO	1791	
-	NPTS=IABS (IRIGHT-ILEFT)		THEPHO	1793	
	INDXI=ISIGN(I)(ITOK-IBACK)		FHERMO	1847	1
14.0	DO 700 ICU=1, NCUFV		THERMO	1795	
	IFLIGU-NCURVI 62,61,61		LIERRO	841	
10	U*UBACK		THERMO	16.11	
62	CONTINUE		THERMO	1799	
-	UnifoR-148x1*(100-11		THERMO	0007	
. 63	CONTINUE		THERMO	1001	1
	DX=DELU*SIN(THETA)		THERMO	1803	
	10EL X= 10x / x5CALE1*924.		THERMO	1804	
150	DY=DELU*COS(THETA)		THERMO	1805	
-	10HT - 10HE		THERMO	1807	
	15NPF3+1		THERMO	1888	
	00 180 JJ=1,NPTS		THERMO	1609	
199	IFITHETA1110.120.120		THERMO	181	
116	15.00		FHERMO	1916	1
126	J=1-1		THERMO	1813	
125	CONTINUE		THERMO	1014	1
160	IVA=ILEFT+(J-1)*IPDX2		THERMO	1615	
	111=0		THERMO	1617	
	7511175 CU. 1.08.1VIEW. CG. 3160 TO 127		FIERRO	1010	
	III=IVA		THERMO	1619	
105	n#ff?	markets, communication of the constraints of the co	THERMO	1821	
127	CONTINUE		THERMO	1955	-
	IF (ICU-NCURV) 129-128		THERMO	1823	
160	140x+10000+144		THERMO	100	
170	60 T0 1291		THERMO	1825	

		1621	TPICTITEGGG*IVA7=MAXBILPICTI10000*IVA7,1PICTIMOX77 CONTINUE	THERMO	9291	
			IF (J.) EQ.NPTS) INCI=INOX	THERMO	6291	
	•		TACER SCALVE VARIETICELA	THERMO	1831	
ITALIAN ITAL			IFIICU. EQ. 1. OR. ILU. EQ.NCURVI GO TO 170	THERMO	1632	
			IF(MODIL):IPASSI:ME.0160 TO 170	THERMO	1833	
THERMO DOTATO THE PRO DOTATO THE PRO		-	IFINX EQ. DINX=1	THERMO	1839	
DESTRUCTORY CONTINUE CONTIN			INCX=1	THERMO	1636	
THE PROPERTY OF TANK TO THE PROPERTY OF THE			IF(IXSAV(J), GT.IXZ) INCX==1 OX=NX	THERMO	1636	
THERMO TYSETYSAVIJ THE ROOT TYSETYSAVIJ THE ROOT THE			OF=ITSAVEJI	THERMO	1839	
INSTITUTE INST	5		R4TIG=DY/DX	THERMO	1840	
THE PROPERTY THE			TXSTTTYSAV(J)	THERMO	1841	
DO 165 151,NX		-	IN=0	THERMO	1843	
INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED INTERVED			DO 165 I=1.NX	THERMO	1944	
IFTITITE	-		INSTALLACIO	THERMO	1845	
18-0 18-0		-	PELLY LE HAXYELX BAD. IV. 6E. HIMY CEXISO TO 130	THERMO	1981	
130 GO 10 150 THERMO			INEO	THERMO	1040	
135 IFCTINE CO. 135 THERMO 135 IXSAV(J)=1X 175 IXSAV(J)=1X 186 CONTINUE 186 CONTINUE 186 CONTINUE 187 IXSAV(J)=1X 188 CONTINUE 188 CON			09 10 160	THERMO	1849	
135 IXSAV(J) = IX		130	IF(IN.EQ.1.0R.1.EQ.1)GO TO 135	THERMO	1850	
155 INSANCISELY 166 CONTINUE 167 CONTINUE 168 CONTINUE 178 CONTINUE 180 CONTINUE 180 CONTINUE 181 CONTINUE 181 CONTINUE 182 CONTINUE 183 CONTINUE 183 CONTINUE 184 CONTINUE 185 CONTINUE			CALL LINEVITXSAVIJI, IYSAVIJI, IX. IYI	DHEAD	1681	
INSTITUTE INST		135	INSAVIJ = IX	THERMO	1056	
160 CONTINUE 160 CONTINUE 160 CONTINUE 170 IFTERNO LIVERITARY (IX) THERMO 171 INSAN (J) = IX2 THERMO 172 INSAN (J) = IX2 THERMO 173 INSAN (J) = IX2 THERMO 174 INSAN (J) = IX2 THERMO 175 INSAN (J) = IX2 THERMO 175 INSAN (J) = IX2 THERMO 176 INSAN (J) = IX2 THERMO 177 INSAN (J) = IX2 THERMO 178 INSAN (J) = IX2 THERMO 178 INSAN (J) = IX3 THERMO 178 INSAN (J) THERMO 178 INSAN			IN=1	THERMO	1854	
THE CONTINUE THE	-	180	CONTINUE	THERMO	1699	
165 CONTINUE 170 INTERNO 180 CONTINUE 181=8-SCALM*INTINION-ITI-6T*HWY(IXI) 100T = .PALSE. 18EMO 182=18544(J) 182=18544(J) 182=1854(J) 183=1854(J) 183=1854(J) 184=1854(J) 184=1854(J) 185=1854(J)			MAKTILK) = MAKULT, PAKTILK)	INEKNO	1020	
176 IFTN EQ.ODCALL LINEVIIXSAVIJ; IYSAVIJ; IXE; ITERNO 180 CONTINUE 180 CONTINUE 180 CONTINUE 181 CONTINUE 182 CONTINUE 183 CONTINUE 183 CONTINUE 183 CONTINUE 184 CONTINUE 184 CONTINUE 185 CONTINUE 18		165	CONTINUE	THERMO	1858	
176 INSAVIJENZ 180 CONTINUE 180 CONTINUE 181 CONTINUE INTERNO	-		IF (IN. EQ. D) CALL LINE VIIXSAVIJI , ITSAVIJI , IXE, ITE	THERMO	1889	
146 CONTINUE IXIAFYSCALUFILEFFYIGELY*** IXIAFYSCALUFILEFYIGELY*** IXIAFYSCALUFILEFYIGELY*** IXIAFYSTAYL IXIAFY I	8	170	INSAV(J)=IX2	THERMO	1860	
		180	CONTINUE	THERMO	1862	
Y 1 Y 1 Y Y Y Y Y Y	-		TA1=#*SCALU*ILEPT*IDELX*B	THERMO	1863	
If III			DELY+0	THERMO	1864	
IXZEIXSAVIJ IXZEIXIJ			IF TITE . T. SHAXY LIXED SANDS IVE 61 OH INVITABLE TOUT = OF ALSE.	THERMO	1869	
IVE = IVE AV (J)	-	-		OHE SHIP	0007	
			IX=IXSAV(J)	THERMO	1966	
If (Nx = Q · 0) Nx = 1			HX-IABS(IXE-IXI)	THERMO	1869	
If (IAC.IT.) INCX=-1 DX=NX OY=1X-1 RAIG-DY/OX IX=IX1 IX=IX1 DD 230 K=1.NX IX=IX+INCX+ IX=IXX+INCX+ IX=IXX+ IX=IXX+INCX+ IX=IXX+	2		IF (NX. EQ.0) NX=1	THERMO	1870	
DX=NX Of=I72-IY1 RATO-OF/OX IX=IX1 IX=IX1 DJ 230 K=1,NX IX=IX+INCX IX=I			TECTED IT TX41 TMCk=-4	THERMO	1872	
THERMO T			T	FHERMO	1073	-
			01=I12-IV1	THERMO	1874	
IX=IX1	-		K#110=01/0x	PHERMO	1075	
DO 230 K=1.NX THERNO IX=IX+INCX IX=IX+INCX IX=IX+INCX IX=IX+INCX IX=IX+INCX IX=IX-IX IX I			IX=IX1	THERMO	1076	
INTERNO INTERN			C 220 V-4 LV	THERMO	187	
IV=IVST+K*RATIC THERMO			TX=TX+INCX	THERMO	1870	
- THERMO	5		IN=INST+K#RATIC	THERMO	1000	
	-	-	XI=XGNI	PHERMO	1007	

230		IPTIV.LT.HXV.AND.IV.GT.HNV1GD TO 200	THERMO	1885	
	200	GONTINUE	THERMO	1886	
		IFT.MOT.IOUT) GO TO 218 CALL LINEV(IX1,IY1,IX,IY)	THERMO	1888	
662	=	CONTINUE IOUT=.FALSE.	THERMO	1691	
		IXI=IX IV1=IV	THERMO	1892	
24.0	022	CONTINUE MAXY(INDX)=MAXO(IY,MXY)	THERMO	1894	
	23.0	HINY (INDX) =HINO(IT; HNY)	THERMO	2601	
	000	IF(.NOT.1001)60 TO 234	THERMO	1898	
		CALL LINEV(IX1, IY1, IX2, IY2)	THERMO	1899	
545	252	CONTINUE IND1=IX1	THERMO	1900	
		HAXY (INDI) =HAXD(IVI, HAXY (INDI)	THERMO	- 2061	
		MINT (INDI) = MIND (IV1, MINY (INDI))	THERMO	1903	
250		INTEINE	THERMO	1905	
	200	CONTINUE CONTINUE	THERMO	1906	
		RETURN END	THERMO	1909	
	-				

SN TYPE REAL REAL REAL REAL REAL INTEGER INTEG	PLIP PLIP HAKNAL PLIP	1062 D 1062 D 1013 DY 1013 DY 1013 DY 1012 10EFOR 1012 10EFOR 1082 INCX 1086 INOX	KEAL OF AL			
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	COMMON/CLASF/ICLASS, TITLE(8)	ASS, TI	TLE(8)		THERMO			
EXI	CALL CHSIZV(3,3)			5 7	THERMO	1914		
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02	LL RITEZVIGIZ,	1009.1	1-121-21-06-520		THERMO			1
10 CAL	CALL RITEZV (412,	. 20.1	023,90,2,12,-1	20,1023,90,2,12,-1,12HCONFIDENTIAL ,NE!	THERMO			
30 CALL	ALL RITEZVI440.1	1009,10	ALL RITE 2 V(4 4 0, 100 9, 102 3, 90, 2, 6, -1, 6 HSECRET , NE)	HSECRET .NE)	THERMO			
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00	CONTINUE				THERMO			
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CAL	LL RITEZV(30,5	367,102	CALL RITEZV(30,987,1023,90,2,70,1,TITLE,NE)	TLE,NE	THERMO			
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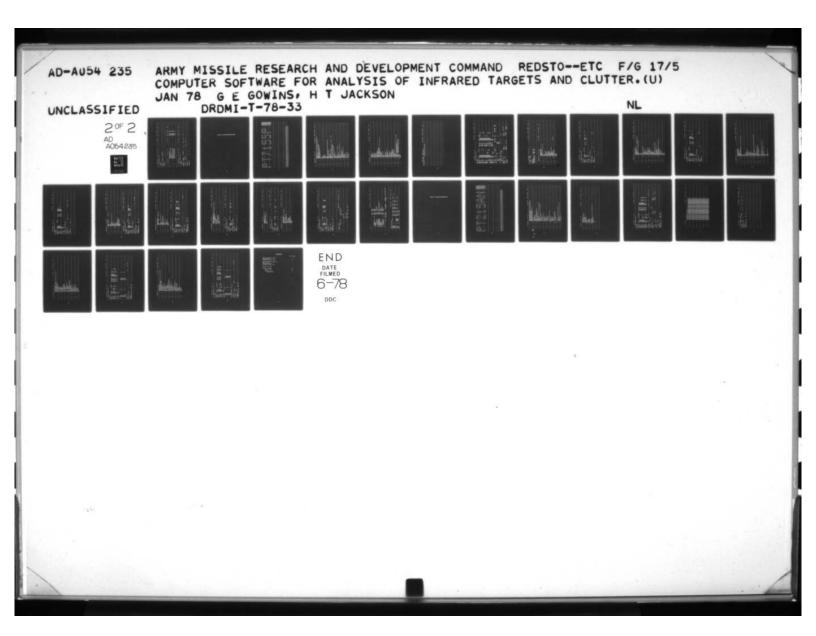
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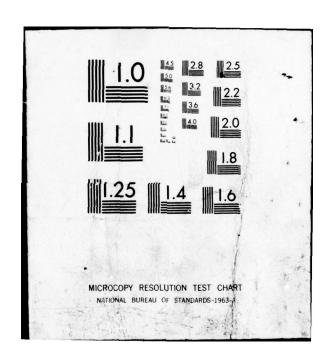
	C**** THIS SUBROUTINE READS A PACKED TAPE CONTAINING ONLY THE		1932
	COMMON IBEFOR(7), IAFTER(7), ITOP, IPICT (10100)	THERMO 19	1934
•	. IVALID. ICALIB. INFT	THERMO 19	1935
	EQUIVALENCE (IBEFCR(1),TIM1), (IAFTER(1),TIM2)		1937
10	101 CONTINUE READ(11) IBEFOR, IAFTER, INPT, (IPICT(K), K=1,2000)	THERMO 19	1939
	If (EOF (11)) 1995, 996, 999 998 IF (IOCHEC (11)) 101, 997, 101	THERMO 19	1981
	597 CONTINUE IEND=D	THERMO 19	1943
61	T11=11M1=51ART T12=485(TTM1=510E)		1949
	TETTT: 11.0000.1CKSTP=1		1947
	1		
20	111 CONTINUE		1950
	IF(TT3.6T.10000.)60 TO 112		1952
	112 CONTINUE	THERMO 19	1954
63	J\$10F=0 IF(ICKSTR)114-113	THERMO 1956	1999
			1661
	IF(TIMI,LT.START)GO TO 101	THERMO 19	1950
30			1960
	CHECK IF CALIBRATE ONLY WAS REQUESTED	THERMO 19	1961
	TCAL=IBEFOR(5)		1963
35	INTICALIBACIONE TOALS EUROPEO TO 101	THERMO 19	1964
	11=10000		1966
	00 24G J=1,2000	THERMO 1968	1968
	IPICT(II)=IPICT(JJ)-4ND-77778	THERMO 19	1969
	IPICT (III-2)=SAIPT (IPICT (JU) - 241 - AND 17778		
	IPICT(II-3) = SHIFT (IPICT(JJ), -36). AND. 77778		2461
	II=II-5		1974
5.	CONTINUE	THERMO 19	1975
			1977
	IF(J.6T.10000)IPICT(J)=0	THERMO 19	1978
5.0	205 CONTINUE		1980
	300 CONTINUE	THERMO 19	1981
	990 CONTINUE JSTOP=1		1963
66	JCKSPPCE 11		1986
The second second second	SACKSPAGE 11	THERMO 1987	787

	BAC	CKSPACE 11						THERMO	1961		
		CKSPACE 11						THERMO	1989		
0	91 666	IEND=IEND+1						THERMO	1991		
	43	FILEND. 67.21	60 10 80					THERMO	1992		
	CHO							THERMO	***		
SUBROUTI	SUBROUTINE PACKED	74/74	OPT=1	TRACE		FTN 4.2+74355	+74355	09/29/76	13.01.26.	PAGE	•
SYMBOLLS	SYMBOLTS REPERENCE	MAP (RE11)							1,000		
ENTRY POINTS											
1 PACKED											
VARIABLES SI	SN TYPE	RELO	RELOCATION								
173 ICAL	INTEGER	RRE	1		12 TCAL TR	TWTEGER	BREET	0,000			
1	INTEGER		11404		TOKSTR	INTEGER		100			
	INTEGER		POPFT	174		INTEGER					
13 INPT	INTEGER		1404		17 IPICT	INTESER	ARRA	PUPET			
1	INTEGER				1	TWEGER					
	INTEGER		POPFT	167		INTEGER					
1 NSK	REAL		POPET		S START	PFAI		POPET			
	REAL		POPFI			REAL		-			1
7 TIN2	REAL		//	170	111	REAL					
AN	HODE					New P					
TAPE11	UNFHT										
EXTERNALS	Ä	AKGS									
IOCHEC	INTEGER				SHIFT	NO TYPE	- 2				
STATEMENT LABELS	S							183			
0 113	INACTIVE		42	1	THACTIVE	-	80		48.8		
502 0	INACTIVE		621	966	INACTIVE	tve	141	666			
COHMON BLUCKS	LENGTH										
POPFT	10115										
STATISTICS PROGRAM LENGTH		1779	187								
			,								

	SUBROUTINE UNPACKITN, HTAB, HOUT)	SEPTIE			
	DIMENSION IN(I), MIAB(II), MOUL(II), MASK (60)	SEP112			
	מבור פביינים ביינים	171.110	, ,		
	0=1	SEPI12			
2	N=0	SEPTIZ			
	MMORD=1	SEPT12	•		
-	HSIT=60	SEPTIZ	2		1
	10 I=I+1	SEPT12	11		
	KTA8=HT48(I)	SEPT12	- 12		
10	IF (KTAB) 20,90.40	SEPT12	13		
		SFP112	14	-	
	25 IF (MBII) 30-70-10	SEPT12	15		
	- 1	***************************************			1
		20112	::		
	T-DYORU BOYOUT	355116			
1.5	г.	SEPT12	81	-	
	40 M=M+1	SEPT12	19		
	HDIF=HGIT=KTAB	SEPT12	02		1
	IF (MDIF) 50,60,80	SEPT12	21		
	90 INORD-SHIFT (AND(INCHNORD), HASK (HBIT)), -HOIF)	SEPTIE	*		1
20	MMORD=MMORD+1	SEPT12	23		
	H9If=60+H0IF	SEPT12	*2		1
	HOUT (H)=OR (IMORD, AND (SMIFT (IN (MMORD), - MBIT), MASK (-MDIF)))	SEPT12	52		
-	60 10 10	SEPTIE	92	-	1
	60 MOUT(M)=AND(IN(MMCRD), MASK(KTAB))	SEPT12	22		
-	70 HSIT-60	SEPTLE	2		
	MMORD=MMORD+1	SEPT12	62		
	66 10 10	SEPT12	-		-
	80 MBIT=MDIF	SEPT12	31		
	HOUT (H)=AND (SHIFT (IN (HWORD), -NDIF), MASK (KTA9))	SEPT12	36	-	1
30	GO TO 10	SEPT12	33		
	20 SCT-1884	414036	*		1
	CZZU	27.000	36		

					0.0							
TOCT .	REFERENCE	STHBOLLS REFERENCE HAP TREES										
ENTRY POINTS												
S	TYPE	æ	RELOCATION									
IMORD	INTEGER				- 4	KTAB	INTEGER	ARRA				
	INTEGER				41.	HASK	INTEGER	REER				
HOUT	INTEGER	ARRAT	1.4.			HTAB	INTEGER	ARRAY	.4.4			
	200	1										
AND	NO TYPE	AK63				SHIFT	NO TYPE	- 2				
STATEMENT LABELS												
30	INACTIVE	VE	2	26 40		INACTIVE			22	INACTIVE		
06								*				
STATISTICS												
PROGRAH LENSTH		96.42	183									
SUBROUTINE DONE	DONE	74/74	0PT=1	TRACE			FTN 4.2+74355	+74355	09/29/76	13.08.54.	PAGE	-
	os o	SUBROUTINE SUBROUTINE	TO DISPOUN	T TAPE	17. AN	IN MOUNT	SUBROUTINE DONE (17) SUBROUTINE TO DISPOUNT TAPE IT, AND MOUNT NEXT TAPE.		SEPTIZ SEPTIZ	35		
	2 %	PAUSE " MOU	NT NEXT T	APE					SEPT12 SEPT12	36		
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SN TYPE RELOCATION INTEGER 'UNUSED F.F. SUBMOUTER OF TAYTA, OPT-1 TRACE FIN 4.2-74355 09/29/75 13.03-55, PAGE SUBMOUTER OF TAYTA, OPT-1 TRACE FIN 4.2-74355 09/29/75 13.03-55, PAGE SUBMOUTER OF TAYTA TAXTATATATATATATATATATATATATATATATATA	NS I								
SN TYPE RELOCATION 138 14	SN								
ROUTINE GETHSK	LENSTH	EN TONUS	OCATION						
CETHSK			#						
SUBMOUTINE OFFICE FIN 4.2.74.355 09/29/75 13.09.55. PAGE									
SUBMOUTINE GETWSKITH District STORE S	SuaRoutine GET		1=1d0	TRACE	FIN 4,2+74355	09/29/75	13.09.55.	PAGE	-
STREET S									
Interest Type Relocation Steple Laborate Labor		DIMENSION IN	160)			SEPT12 SEPT12	24		
INIT) = CR (SMFT(INI(I-1).1) + MASK)		IN(1)=HASK	0000000	100000000000000000000000000000000000000		SEPT12 SEPT12	23		
10 CONTINUE		100 10 1=2.57 IM(I)=0R(SHI	T (INCI-1	1,11, HASK)		SEPT12 SEPT12	\$ 3		
High = 3777777777777777	-	PH	11111111	8777777		SEPTI2			
E GETMSK 74/74 OPT=1 TRACE FIN 4.2+74355 09/29/76 13.09.55. PAGE RECORTION 1 TYPE RELOCATION 1 TYPE ARGS	10	IN(60)=37777	77.17.77	7777778		SEPT12	20		
TYPE RELOCATION 0 IN ENFERENCE AREAY F.P. TYPE ARGS SMIPT NO TYPE 2 SMIPT NO TYPE 2		ENO				SEPTIZ	16		
E GETMSK 74/74 OPT=1 TRACE FTN 4.2+74355 09/29/76 13.09.55. PAGE REPERENCE MAP (R=1) 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>61.5</td><td></td><td></td><td></td></td<>						61.5			
TYPE RELOCATION 0 IN INTEGER ARRAY INTEGER TYPE ARGS NO TYPE 2 SHIPT NO TYPE 2			0PT=1	TRACE	FTN 4.2+74355	09/29/76	13.09.55.	PAGE	2
I TYPE RELOCATION O IN INTEGER ARRAY INTEGER TYPE ARGS HO TYPE 2	SYMBOLES REPER								
TYPE RELOCATION O IN INTEGER ARRAY INTEGER TYPE ARGS HO TYPE 2	ENTRY POINTS 3 GETHSK								
INTEGER INTEGER TYPE ARGS NO TYPE 2 SHIPT NO TYPE 2	S		OCATION						
TYPE ARGS NO TYPE 2 SHIFT	MASK	GER		# ·		•			
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THE PERSON NAMED AND PE	0 10								

Appendix B. LISTING FOR PROGRAM GOWEN

171.55	•	**** >T71S5P		171.55P	PT7159P PT7155P			
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	•	****	:	::				***************************************
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	:			100				*******************

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	CHEST ACT (Shell act (Shell
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1=0.0 DEE=50 EAD (5.7) IF IL. IAP. IEN, KH. CH SECK. RANGE. (VEW(I), Las., 4) EAD (5.7) IF IL. IAP. IEN, KH. CH SECK. RANGE. (VEW(I), Las., 4) FIFTE (1.0) ED TO 1001 FIFTE (1.10) ED TO 1001 RITE (6.11) IF IL. IAP. IEN. CAIN N N SECK. RANGE RITE (6.11) IF IL. IAP. IEN. CAIN N N SECK. RANGE RITE (6.11) IF IL. IAP. IAP. IEN. CAIN N N SECK. RANGE RITE (6.11) IF IL. IAP. IAP. IAP. IAP. SECK. RANGE. VIEN RITE (6.11) IF IL. IAP. IAP. IAP. IAP. SECK. RANGE. VIEN RITE (6.11) IF IL. IAP. IAP. IAP. IAP. SECK. RANGE. VIEN RITE (6.11) IAP. IAP. IAP. IAP. IAP. IAP. IAP. IAP.	
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######################################	K.RANGE.(VIEW(I).In1.4)
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RIFE(6, 17) IF RIFE(6, 14) IF RIFE(6, 14) IFL. IP-IEM-SCAIN N S RAMEE RIFE(6, 14) IFL. IP-IEM-SCAFIG-E-RAME-VEW RRIFE(6, 14) IFL. IP-IEM-SCAFIG-E-RAME-VEW RRIFE(6, 14) IFL. IP-IEM-SCAFIG-E-RAME RRIFE(6, 14) IFL. IP-IEM-SCAFIG-E-RAME RRIFE(1, 18, 18, 19, 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	
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DENNIT LYPEL APER GAIN N S S KANGE RIFE(6, 41) IFL. 14-15N-14. M-SECK-4NEE VIEW WRATTIZ-1X-1X-1X-15N-14. M-SECK-4NEE VIEW WRATTIZ-1X-1X-1X-1X-14. M-SECK-4NEE VIEW WRATTIZ-1X-1X-1X-1X-1X-1X-1X-1X-1X-1X-1X-1X-1X-	
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10081 10081 ALL IMS(11, IM, IM, IM, IM, IM, IM, IM, IM, IM, IM	
CALL MASSTA, IN-IN, SEC) CALL MASSTA, IN-IN, SEC) CALL MASSTA, IN-IN, SEC) 1FILM-NE, KN 60 TO 3 CALL UPACKIN; 50 C GO TO 999 CALL NEW 104-10 OALL ATTACKIN-1041	
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		00 64 I= 1.6K		
DELEMENTATION: THE PROPERTY OF		MAXWENCEL AND 17773		
12 FORMATION ANY TOTAL AND	1	HENVENCEION DELTA=FLOAT		
	-	-	• DELTA=+F5-1,//8x*x*,9x**)	
		_		B. Co.
7.0 K(II) = 1.0 E.IA 6.0				
		70 x(1)=x(1-1)+0ELTA		
				and the same of th
		00 73 E-1.K		
		MINUTES AND TTTE		
100 10 11 100 10 11 100 10 11, 90 1, 400 100 10 11, 90 11 100 10 11, 90 11 100 10 11, 90 11 100 10 11, 90 11 100 10 10 11 100 10 10 11 100 10 11 100 10 10 11 100 10 11 100 10 10 10 11 100 10 10 10 10 10 10 10 10 10 10 10 10		71 10 (VM, 6E, 1EST) 60 10 72 TEST-1EST-0ELTA		
\$1 x_0		12 01 09		
### ##################################		60 TO (91, 95) - K50		
		J= (K.)-1		
KVIII.JJ)=SNIFT(KLI9) KVIII.JJ)=SNIFT(KLI9) KVIII.JJ)=SNIFT(KLI9) KVIII.JJ)=SNIFT(KLI9) KVIII.JJ)=SNIFT(KLI9) SOMTINUS 73 CONTINUS 74 FORMATILES. PASSO.		KLT-SHEF (ML2)-12)		
22 7		KRIII.JJ)=SHIFTICLI9)		
2 2		IFIKJ-EQ.200 K50=2	900	
MRTE(†) MRTE(†) MRTE(†) GO TO L STORY		73 CONTINUE 73 CONTINUE 74 CONTINUE 74 FORMATTAXEFA 6.2, 44316, 44316, 4431	Pricitabenvilabeness alstanders	,
101 00 101 101 101 101 101 101 101 101	911	*	(+1) the Ich Range	
10			41.34.24t.901.34t.45	
	Colleges decreased in the Co. or	TOOL SOUTING		

PROGRAM GOMEN	COMEN		FT# 4.2+74399 01/31/77	11.31.77 11.46.00.	PAGE 3	1
CAMO HR. SEVERITY	DETAILS	THERE IS NO PAIN TO THIS STATEMENT.				1
	73.		The Property of Control of the Control			1
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ENTRY POINTS										
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										and place the second second second second
VARIABLES	SN TYPE	REL	RELOCATION							
12072 JELTA	KEKL			16.8.6	100	TATECH	AVGET	, ,		
15051	TALE GER			2382	-	INTESER	RERATI	-	-	
	INTEGER	ii		~	161	INTEGER		310CK		
101 0	INTEGER		PLOCE.	C 2 2 5	LSN	INTEGER				
	THE CO.			18181		THIESER				
15064 EM	INTEGER			-	INC	INTEGER		31.0CK		
	INTEGER	-	BLOCK	1	11	INTEGER		3LOCK		
1 29951	INTEGER			1520	3	INTEGER	***************************************			
15074 (63	THEFFE			1 50 53	2 2	INTEGER	- August			
1	THE CAN			18088	03	THIEBER				
	INTEGER			1.88	K.	INTESER				
19293 (8	INTEGER	ARCAY		1873	NA.	INTESER	MERT			
		ARRAY		•	MAXV	INTEGER		MVAL		
LAKKAR			MVAL	CR	MI MI	THESER		-		
ANT 2	THIEDEK		MAN	-	TUANTH	THIESER		TANK		
	INTEGER				NWDS	INTEGER		HANE		
19096 CANGE	REAL			19061	350	REAL				
	REAL			187	TEST	REAL				
15060 FN	PEAL	ARBAV		77.051	VAI	REAL				
	KENE	REER		120	-	REAL	BRRATI			
PILE MAYES	300H									
TLAN 1		1402	DUTPJT		4102	TAPE1	UNFRT	10201	TAPER	CHENT
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EXTERNA. S	Time	RES		1		1				
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CADARZ	2	2			SORTE		-			
JNPACH		1			VSSAN		١			
SNOITCHUE FUNDTIONS		ARGS								
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	FI		NEW TOWN				14656		- 186	
14674 10			10118	13	-		9			
1	L	-	11811				16983	-		
. 73					RMT MA DEFE		- Charles		THACETUE	

COMMON SLOCKS LENGTH			
NVAL			
STATISTICS PROGRAM LENGTM			
SUPPER LENGTH	1 2 2		
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			•
SUBROUTENE VS	VSCAN 74/74 OPT=1	FTH 4.2+71355	91/31/77 11-46-84- PAGE
			经建设法等 横边的过去式和过去分词
	SUMERCOTTAL VEGARING		
•	FORMATILLS PMAYERAGE , LOW STO DEVIATO		•
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	9-XS		Market Co.
8	00 15 7-1,100		
	H(Ko, J) on (I)		
	2 00		
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	SKESKOMIK, J1002		
12	SAX=(100-SX-TIS)/(100-66)		
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2 42			
2	28 CONTINUE		
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NE PINTS NE RELOCATION 11	SN TYPE RELLER INTEGER INTEGER REAL R	STABULIS REPERENCE NAP (REI)	EPERENCE	MAP (REL)								
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a	SACSXWIII 002 IF(I.L.T. N) GO TO 10
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30	16L=16L+1
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6 5	
•	71-K1-100+K1+1
	72-X1-100+N
8	0=10I
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NETABLES SN TYPE RELOCATION 1 134 INTEGER 15.P. 151 L. INTEGER 155 II INTEGER 15.P. 154 LN INTEGER 153 J INTEGER 15.P. 154 LN INTEGER 153 J INTEGER 15.P. 154 LN INTEGER 153 J INTEGER 15.P. 155 LN INTEGER 153 J INTEGER 15.P. 155 LN INTEGER 155 II NATEGER 15.P. 155 LN INTEGER 15.P. 155 LN INTEGER 15.P. 155 LN INTEGER 15.P. 155 LN INTEGER 15.P. 156 LN INTEGER 15.P. 157 NO REAL 15.P. 158 LN INTEGER 15.P. 159 LN INTEGER 15.P. 150 LN INTEGER 15.P. 150 LN INTEGER 15.P. 151 LN INTEGER 15.P. 152 LN INTEGER 15.P. 153 LN INTEGER 15.P. 154 LN INTEGER 15.P. 155 LN INTEGER 15.P. 155 LN INTEGER 15.P. 156 LN INTEGER 15.P. 157 LN INTEGER 15.P. 158 LN INTEGER 15.P. 158 LN INTEGER 15.P. 150 LN INTEGER 15.P. 151 LN INTEGER 15.P. 152 LN INTEGER 15.P. 153 LN INTEGER 15.P. 154 LN INTEGER 15.P. 155 LN INTEGER 15.P. 155 LN INTEGER 15.P. 156 LN INTEGER 15.P. 157 LN INTEGER 15.P. 158 LN INTEGER 15.P. 158 LN INTEGER 15.P. 159 LN INTEGER 15.P. 150 LN INTEGER 15.P.	TYPE RELOCATION J 13H INTEGER F.P. INTEGER 153 JI INTEGER INTEGER 153 JZ INTEGER INTEGER 153 JZ INTEGER INTEGER 151 JS NREGER INTEGER 151 SDX REAL REAL REAL HODE FIT TYPE ARGS 119 FRI 147 7 7 119 1678 119	SYNBOLIC REFERENCE MAP (R=1)	MAP (K=1)				
Sh Type	NT NT NT NT NT NT NT NT	NIRT POINTS 3 ATTACK					
INTEGER INT	INTEGER 153 II INTÉGER 1794 INTÉGER 1853 II INTÉGER 1853 J2 INTÉGER 1853 J2 INTÉGER 1854 J2 IN	ZS					
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SUBROUTINE KADAK COMMON/3 LOCK 150-15.15 11 11.05.17. COMMON/3 LOCK 150-15.15 11.05.17. 1 15-0 1 1
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ENTRY PJINTS 3 JAPAGK VARIABLES SN TYPE RELOCATION 37 I INTEGER ARRAY 18 15 INTEGER 18 16 INTEGER 18 16 INTEGER 18 17
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12 511.1.0.1061CAL,DISPLAY,D TAPEZO

Appendix C. LISTING FOR PROGRAM KPLOT

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		::	:			:	:	:	PT215AN PT215AN
		:	:	:	:	*******	:	:	PT21SAN
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		*	******	*****	*******			:	PT21SAN
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DIMENSION PISOL, KSYMILOD COMMON TOATVMP-VICTODD-VICEOUS-KCI2001 111, 110, 250, MIVW, 41 XV, 15 YV (2001) DATA KSYNIA-49, 50, 51, 52, 53, 54, 55, 56, 577 NPATU NPATU DO 73 1=6, 0 NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 4) NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 4) NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 4) NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 4) NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 4) NRIFE 6, 21 14, 14, 5EC, (VIEWII), 1=1, 50, 1, 1=1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	DIMENSION P(501.2(501.KSYM(101) COMMON TOTATWE, TCTOB1.FTEBB1.KR(2001, KC(2001, KV(2001, VIEW(4). COMMON TOTATWE, TSTEBB1.FTEBB1.KR(2001) COMMON/CALB/BIASTR .61.5L.92.53.54.55.56.57 DATA KSYM/40.49.50.51.52.53.54.55.56.57 MATA KSYM/40.49.50.51.52.53.54.55.56.57 MATA KSYM/40.49.50.10.51.51.50 DO 73 IE6.8 BOO 73 IE6.8 DO 73 IE6.8 BOO 73 IE6.8 BOO 73 IE6.8 FRANCE INTERCAL SEC. (VIEW(I), I=1.4) FORMATICAL SEC. (VIEW(I), I=1.50) FORMATICAL SEC. (VIEW(I), I=1.50) FORMATICAL SEC. (VIEW GO TO 8 FRANCE INTERCAL SEC. (VIEW GO TO 8 KEJ KEJ KEJ KEJ KEJ KEJ KEJ KE		
1 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	12.53.54.55.56.577 12.53.54.55.56.577 12.50.1 .IFIL.1AP.1CH.RANGE		
10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 73 1=6.0 10 0 0 1=2.10 10 0 1 1=0.0	TEMIDITALOS TEMIDITALOS TEMICAS AND ALTERATISTAL TELISON LIFILLIAP.IGN.RANGE		
10 BISSIT. JP-81 BISSIS. J) 8 SCOPTING 15 CONTINUE 15 CONTINUE 16 RELEGAD IN 176 SECTIV 17 RELEGAD IN 176 SECTIV 18 READ (5 to) IN 176 SECTIV 18 READ (5 to) IN 176 SECTIV 20 READ (5 to) IN 176 SECTIV 21 REPUT (6 to) IN 176 SECTIV 22 READ (5 to) IN 176 SECTIV 24 READ (5 to) IN 176 SECTIV 25 READ (7 to) IN 176 SECTIV 26 CONTINUE 27 REPUT (6 to) IN 176 SECTIV 28 READ (7 to) IN 176 SECTIV 29 REPUT (11 to) IN 176 SECTIV 20 O 9 I = 2 to) 21 CONTINUE 22 REPUT (11 to) IN 176 SECTIV 23 O O 9 I = 2 to) 24 RELIT (11 to) IN 176 SECTIV 25 READ (12 TO) IN 176 SECTIV 26 CONTINUE 27 REPUT (12 TO) IN 176 SECTIV 28 RELIT (13 TO) IN 176 SECTIV 29 RELIT (13 TO) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 20 O I = 2 to) IN 176 SECTIV 21 D I = 2 to) IN 176 SECTIV 22 D I = 2 to) IN 176 SECTIV 24 D I = 2 to) IN 176 SECTIV 25 D I = 2 to) IN 176 SECTIV 26 D I = 2 to) IN 176 SECTIV 27 D I = 2 to) IN 176 SECTIV 28 D I = 2 to) IN 176 SECTIV 29 D I = 2 to) IN 176 SECTIV 20 D			
20	IEN(I), I=1,4) (IP BAR PLOT, OR WIN, VAL==-(15)**) I=1,50*) , IFIL, IAP, IGH, RANGE		
15 REAULT) 14.14.5EG, 14.14.5EG, 14.14.5EG, 14.14.5EG, 14.14.5EG, 14.14.5EG, 14.14.5EG, 14.14.14.14.14.14.14.14.14.14.14.14.14.1	TEW(I).I=1.4) TEW(I).I=1.4) (IP BAR PLOT. OR WIN. VAL==-f15)** I=1.50)) .IFIL.IAP.ICN.RANGE		
15	(IP BAR PLOT, OR HIM, VAL===115101 I=1,50+) , IFIL, IAP, IGM, RANGE		
20 REDICTITY INPUT B TO S REDICT ((P(I), Q(I), VALMENTY (PO 1), Q(I), Q(KIP BAR PLOT. OR WIN. VAL(15)*** I=1.50+) .IFIL.IAP.IGN.RANGE 6		
20 REACT ((P(I), Q(I), VALMENTY (P(I), Q(I), VALMENTY (P(I), Q(I),	1=1,50+) , IFIL, IAP, IGM, RANGE		
25 K2			
25			
8 X113-VALM+DELT 8 X113-VALM+DELT 7 X113-VALM-DELT 9 X113-X11-11+DELT 00 13 T=14-10			
30 00 9 1=2.10 VII)***********************************			
9 X(I)=X(I-1)+0ELF 00 13 I=1,10			
00 13 T=1,10			
00 11 J=K, 50			
35 L=J IF(P(J), GT, (X(I)+0.1))	60 T0 12		
11 v(1) = v(1) v(1) v(1) v(1) v(1) v(1) v(1) v(1)	20 50 50 50 50 50 50 50 50 50 50 50 50 50		
40 DELT=DELT+0.5			
IFIL=IFIL+1 IAP=IAP+1			
00 49 f=1,18 16k=1		100	
49 X(I)=SLOP(IFIL, (AP)*X(RANGE.		
CALL BARPLT			
15			
SO 14 CONTINUE LERGID, KCT	D.KWT1 - 1 = 1 - 2001		
MRITE (6.16) 16 FORMATITX* IMPUT 0 TO S	HRITEI6.16.		
READIS.41 NP			

	X(T)=KG(T) V(T)=180-KB(T)+1				
9	IF(X(I),GE.100.) X(I)=99.9			-	
	J=(K4(I)-1)7100+1 IF(J-LE.0) J=1		and the same of th		
65	IF(J,GT,10) J=10 21 ISYM(I)=KSYM(J)			1	
	C 25 CONTINUE				
	92				
	MINUEKVINE) CALL HSPOT				
	190 CONTINUE				
5		TO CONTINUE(13)*)			
	MERUTS, 47 160 IF(130, 67, 8) 60 f0 1				
	STOP END				

RELOCA RELOCA RELOCA RERAY	ENTRY POINTS											
SH TYPE RELOCATION SH TYPE RECER	ENTRY POINTS											
S.N. TYPE RELOCATION DST DET REAL ATTEGER ARRAY DAT DST DST DST ATTEGER ARRAY DAT DST DST ATTEGER ARRAY DAT DST ST ATTEGER ARRAY DAT ATTER ARRAY	ENTRY POINTS		417 (K=1)									
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TYPE RELOCATION STY DELT REAL												
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INTEGER	Г	INTEGER		DAT	1762	ISAN	INFEGER	ARRAY	DAT			
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INTEGER ARRAY 1441 KW INTEGER ARRAY DAT INTEGER ARRAY DAT REAL ARRAY CALS 6916 YEAL ARRAY DAT REAL ARRAY DAT 1797 SEC REAL 17	1	· INTEGER	AKKAY	110	179	KK	THIEGEN	BRKRY	DRI			
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INTEGER OUT SO OUT	7 1259	INTEGER			1941	HRX	THIEDER		DAT			
REAL ARRAY LANGAY LANGAY <td></td> <td>INTEGER</td> <td></td> <td>DAT</td> <td>•</td> <td>4</td> <td>INTEGER</td> <td>,</td> <td>DAT</td> <td></td> <td></td> <td></td>		INTEGER		DAT	•	4	INTEGER	,	DAT			
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REAL ARRAY CALL OBT		SEAL		1	1757	SEC	REAL		DAT			
REAL ARRAY DAT 1 X REAL ARRAY DAT VEAL ARRAY DAT NODE 2041 OUTPUT 6 TAPES F4T 2041 TAPE6 UNFRI TYPE ARCS HSPOT 6 6226 8 6422 16 FRT INACTIVE 6274 14 6422 16 FRT LENGTH 120 5368 350 61438 3171	L	KEAL	ARRAY	541.8	6516	WALE	KERE					
NEAL ARRAY DAT		REAL	ARRAV	780	-	*	REAL	ARRAY	DAT			
NODE 2041 OUTPUT 1APES F4T 2041 TAPES TYPE ARCS HSPOT 6426 3 FMT ENGINE ARCS	1	REAL	ARRAY	THO					-			
NODE 2041 OUTPUT TAPES F4T 2041 TAPES TA												
TYPE ARCS HSPOT HSPOT	FILE NAVES	MODE							•		****	
TYPE 4265 HSPOT 0 H	TOWNI 0		1402						2			
NT 6550 2 FMT 6526 5 6226 5 6274 14 6452 16 FMT 6458 3 FMT 6458 1		UNFRI										
AT 6456 3 FMT 6456 12 6456 12 6456 12 6456 12 6456 14 6456	EXTERNALS	TYPE	4265									
NT 6496 3 FWT 6496 3 FWT 6496 3 FWT 6226 6 6 6226 6 6226 6 6226 6 6226 12 6 FWT 6492 12 6 FWT 1210 1220 1358 3571 14 61438 3171	BARPLT		•			HSPOT		•				
AT 6456 3 PWT 6456 3 PWT 6456 3 PWT 6456 3 PWT 6526 6 6 6226 6 6226 6 6 6236 12 6 FWT 6458 350 51438 3171	STATEMENT 1 ABE	9										
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FAT 6352 FAT 6352 FAT 1210 1210 12	12 1	INACTI	F	-	52	-	-	-	1	THAC	IVE	
FAT LENGTH 1210 128 174 5368 174 61638 3				•	73			6352				
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1210 1210 178 5368 114 61638 3	Service annual	- cuctu										-
8 128 5368 5 50674 61438 3	COURTON BESSES	4 210										
5368 ENGT4 5368	BIRS	100				-			-	-	-	
LENST4 5368 ENGTH 61438 3												
61438	STRITISTICS		6769									
61438	PRUCKAR LIN	-	2300	1	-				-			
	BUTTER LENG											

DOTA BLASS(1-17)215-92857170-12-2-3 (S.D.M.1-117-38-333147321478-57		PLOCK DATA ONE			
0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		COMMON/CALB/BIAS(8,8), SLOP(8,9)			
0 0 1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
DATA					
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0 0 1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DATA BIAS(1,51/-,2319825899280E-3/,SLOM1,51/,2153298561151E-4/			-
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SV4BOLIS REFERENCE HAP (R=1)	AP (R=1)					
VARIABLES SN TYPE 0 BIAS REAL	RELOCATION ARRAY CALB	100 SLOP	REAL ARRAY	CALB		
COMMON 3LOCKS LENGTH						
STATISTICS PROGRAM LENGTH CH LABELED COMMON LENGTH	921 8002 0 80					
						90
						-

	SUBROUTINE BARP.T		
	DIMENSION INSTREED 1.145TR(4) COMMON /04T/NP. ((200), Y(200), KR(200), KC(200), KV(200), VIEW(4),	VIEHCL).	-
10	III.IM.SEC.MINN.44 XV.ISYMKZOD) DATA IHBAR,IDBAR/IO.10 DATA IHBAR,IDBAR/IO.10 DATA IVSTR/70,60,60,80,83/		
	CALL FERMES, 1024)		
		and the state of t	
10	CALL YORK TO THE CONTRACT OF T	and the same of the same of the second states and the same of the	
	:		
	YAAX=-108000.		
115	THIN 10000.	the second of th	-
		The second secon	
	CALL DLIMX (XMIN, KMAX)		
20	CALL ULIMITM, THAXI		
	-	Commence of the second of the	
	,		
	CALL CHECKTX, VI		
52			
	S FORMATCI X TTM EVIZ. 12. F6. 3. LAIN		
30	C CALL MOVABS(150,30)		
	CALL		
The same of the sa	5 WRITE (6,6)		-
	WRITE (6,4)		
35	4 FORMATICK, CONTO		-
	CALL HOWABSI SUSSUIN		
	CALL VLABELIG INSTRI		
0,	CALL TINPUTCIO		
	RETURN		

SYMBOLIC	SYMBOLIC REFERENCE	MAP (R=1)									
ENTRY POINTS 1 342PLT						-					
VARIABLES S	SN TYPE	REL	RELOCATION								
1 202	INTEGER		DAT	134	INSTR	INTEGER	*UNDEF				
'	INTEGER		DAT	1762	ISYN	INTEGER	RERAY	110			-
	INTEGER	ARRAY		133	IA SAR	INTEGER					
	INTEGER	ARRAY	2	129		INTEGER	ARRAY	DAT		-	
	INTEGER	ARRAV	110	1761	MAXA	INTEGER		UAT			
	INTEGER		- Car		AN .	INTEGER		180			
1757 553	REAL		100	17.51	VIEN	KEAL	AKKAY	- 45			-
	REAL	ARRA	M	173	XARX	REAL	21001	211			
200 XMI4	REAL			3111	NATE OF THE PARTY	YEAL	SKKA	UNI			
	KENT										
FILE NAMES	HODE				-						1
TAPES	FMT							-			
EXTERNALS	TVPE	ARGS									
ANYODE		1		-	BELL		-				-
SINIFF		•			CHECK		2				
CHRSIZ		-,			DE LINX						
76146		7			-		3	-			-
TNITT					XHYH						
MOVARS	-			-	HPTS		1			-	1
PGHALT					TERN		~				
ICANIL		1			VBARSI						
VLA3EL		2			XFRM		1			-	-
STATEMENT LABELS	S										
1 951	FRE		135 \$		FH		151	150 6	FHT NO PEFS		
CONMON BLJCKS	LENGTH										1
DAT	1210				-	and order out the same of the same of the same			•		1
STATISTICS											
CH LABELED COM	CH LABELED COMMON LENGTH	22728	1210								

	ACCOUNT AND ALLICOSTS			
	DINENSION A(2) +3(2)			
	COMMON /DAT/NP,K(200),V(200),KR(200),KC(200),KV(200),VIEW(4), 1 IH. IM. SEC.HINV.44 XV. [SYM(200)	:00) . KC(20C) . KV(200) . VIEW(4) .		
2	DATA A.B/0.0.100.0.0.0.108.0/			
	CALL TERMIS, 1024)			
	CALL BINIT			
1.0	GALL DLIMX (4(1),4(2))		4	
	CALL DLIMY (B(1), B(2))			
	CALL NEISLES	The second secon	THE RESIDENCE OF THE PROPERTY	
	CALL LINE(-1) CALL CHECK(A,8)			
15	CALL DSPLAYTA, 80			
			•	
	(CALL ANNODE)			
	WRITE (6,5) IN. IN. SEC. (VIEWII) . I = 1,4)	:		
20	CALL MOWABS(156,750)			
	3			
	-			
	CALL SIZES(0.2)			
52				
	00 11 I=1,NP			
	TECARCOCTION OF 131 GO TO 3			
	IFLISCHE II NE. DI GO TO 3			
30	IF(x(I).EQ.x(J)) G (TO 11			
	S CONTINUE			
				The second of the second of
	ISYM(I)=0			
35	A1 CONTINUE			
	CALL YTUBILITY			
	CALL ERASE			
	CALL HOME			
ņ	RETURN			

STABOLIS REFERENCE		44P (R=1)									
ENTRY POINTS 1 HSPOT											
VARIABLES SN	TYPE		RELOCAT ION								
-	REAL	ARRAY		176	8	KEAL	ARRAY				
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1761 4AXV	INTEGER		7		MINA	INTEGER		DAT			
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1751 VIEN 311 V	REAL	ARRAY	700	-	×	REAL	ARKEY	OAT			
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